PB83-248427

BACT/LAER Clearinghouse: A Compilation of Control Technology Determinations. Appendix G Volume 1. Source Type Codes 1.0-5.0

PEDCo-Environmental, Inc., Cincinnati, OH

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

Apr 83

U.S. Department of Commerce
National Technical Information Service
NTIS

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. 450/2-83-005B	2.
3. RECIPIENT'S ACCESSION NO. PB83 248427	
4. TITLE AND SUBTITLE BACT/LAER Clearinghouse - A Compilation of Control Technology Determinations - Appendix G - Vol. I Source Type Codes 1.0 - 5.0	5. REPORT DATE April 1983 (date of issue)
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Dave Dunbar	8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS PEDCo Environmental, Inc. Chester Towers 11499 Chester Road Cincinnati, Ohio 45246	10. PROGRAM ELEMENT NO.
	11. CONTRACT/GRANT NO. 68-02-3512, Task 41
12. SPONSORING AGENCY NAME AND ADDRESS EPA, Office of Air Quality Planning and Standards Control Programs Development Division (MD-15) Research Triangle Park, NC 27711	13. TYPE OF REPORT AND PERIOD COVERED Task Final
	14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES This report will be supplemented from time to time as new determinations require. Users of this report should contact Gary Rust, Control Programs Development Division (919/541-5516) to get number of subsequent reports.

16. ABSTRACT

This report contains summary sheets for permits that were issued by EPA Regional Offices, State and/or local control agencies permitting groups. The actual permits are still contained in the permitting agencies files and if more detailed information is desired, the person indicated should be contacted.

Users should be cautioned that data contained in this document is submitted on a voluntary basis and, therefore, all of the permits issued during the time span shown (Jan 1980 - April 1983) may not be included.

This volume of Appendix G only covers source type codes from 1.0 to 5.0 and Volume II of Appendix G should be reviewed for source type codes 6.0 to 12.0. Data contained in this report is also on the U.S. EPA Univac computer.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS		b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Air Pollution	Bark	Air Pollution Control	
Industrial Processes	Nitrogen Oxides	Stationary Sources	
Combustion Sources	Scrubbers	BACT	
Control Equipment	Baghouses	LAER	
Coal Oil	Electrostatic Precipitators	Sulfur Dioxide	
		Particulate	
		VOC	

18. DISTRIBUTION STATEMENT Unlimited	19. SECURITY CLASS *(This Report)* Unclassified	21. NO. OF PAGES 521
	20. SECURITY CLASS *(This page)* Unclassified	22. PRICE

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

PB83-248427

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA 22161

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1780.00 MW

COMPANY NAME/SITE LOCATION AL ELEC COOP INC ANDALUSIA, AL 36420
P. O. BOC 550 CHOCTAW COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AL 071
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) (205)-834-6570 (PHONE)
DATE OF PERMIT ISSUANCE-- 02/24/81
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE BOILER	4805.00 MMBTU/H EA				
		PM	144.0000 LB/H		NSPS
			631.0000 T/YR		
				ESP	99.80
		SO2	3803.0000 LB/H		NSPS
			16658.0000 T/YR		
				FGD	90.00
		NOX	2883.0000 LB/H		NSPS
			12628.0000 T/YR		
				BOILER DESIGN & OPERATION	
		CO	470.0000 LB/H		BACT
			2060.0000 T/YR		
				BOILER DESIGN & OPERATION	

NOTES ----------
ESTIMATED STARTUP DATES -- UNIT 1, 3/86 - UNIT 2, 5/91 - UNIT 3, 7/96 - UNIT 4, 9/01.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MW

COMPANY NAME/SITE LOCATION ARIZONA PUBLIC SERVICE CO., CHOLLA UNIT* JOSEPH CITY, AZ

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AZP 78-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON) (415)-974-8038 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/15/78
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	350.00 MW				
		PM	0.0500 LB/MMBTU	ESP	
		SO2	0.0720 LB/MMBTU	WET LIMESTONE SCRUBBING LOW S COAL	94.00
		NOX	0.7000 LB/MMBTU		NSPS
COAL HANDLING AREAS		PM		DUST CONTROL SYS	
LIMESTONE HANDLING AREAS		PM		DUST CONTROL SYS	

NOTES ----------
THE DEGREE OF CONTROL WAS PROPOSED BY CO. IN ITS APPLICATION. FUGITIVE D UST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATER SPRAY. BOTTOM ASH SHALL BE PUMPED TO A SPRAY POND. ASH SHALL BE MIXED WITH WASTE SLUDGE FROM SO2 ABSORBERS AND OR WASTEWATER FROM COOLING TOWER AND TRANSPROTED IN A SLURRY TO A SEPERATE DISPOSIAL AREA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION ARKANSAS PWR & LT CO. NEWARK, AR
INDEPENDENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-AR-48
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED STEAM GEN	800.00 MW				
		SO2	0.9300 LB/MMBTU	LOW S WESTERN COAL	NSPS
		PM	0.1000 LB/MMBTU	ESP	99.50

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 730.00 MW

COMPANY NAME/SITE LOCATION ASSOC. ELECT. COOP., INC.
THOMAS HILL STATION , MO
RANDOLPH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 02/06/78
ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED (UNIT 3), PU*	6588.00 MMBTU/H				
		SO2	1.2000 LB/MMBTU	WET LIMESTONE SCRUBBER	BACT 90.00
		PM	0.1000 LB/MMBTU	COLD-SIDE ESP	BACT 99.70
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
PLANT NAME- THOMAS HILL (EXISTING UNIT 1 - 180MW, NET, EXISTING UNIT 2 - 303 MW, NET). THE NEW UNIT 3 IS SUBJECT TO NSPS, SUBP ART D. EXISTING UNITS 1 AND 2 WILL BE LIMITED TO 8.0 LB SO2/MMBTU (3-HR. AVG.) BECAUSE OF POSSIBLE AMBIENT STANDARD VIOLATIONS. THE EXISTING UNITS WILL BURN WASHED COAL (4.5% S BY WT.). UNIT 3 WILL BURN UNWASHED COAL (5.5% S BY WT.). MISSOURI COAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 313.00 MMBTU/H

COMPANY NAME/SITE LOCATION AUSTELL BOX BOARD CO. AUSTELL, GA 30001
WASHINGTON ST.

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 2631-033-7994-C
DETERMINATION MADE BY GEORGIA EPD (AGENCY) W. FARRISEE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/29/81
ESTIMATED DATE OF START-UP-- 1983
(404)-656-4867 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	313.00 MMBTU/H	PM	0.1000 LB/MMBTU	BAGHOUSE	NSPS 99.50
		SO2	1.2000 LB/MMBTU	SPRAY DRYER-ATOMIZED CA(OH)2	NSPS 70.00
		CO	0.7000 LB/MMBTU	FURNACE, BURNER DESIGN	NSPS
		VOC		FURNACE, BURNER DESIGN	
		NO2		FURNACE, BURNER DESIGN	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 249.00 MMBTU/H

COMPANY NAME/SITE LOCATION A.E. STALEY MFG. CO. MORRISVILLE, PA
BUCKS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81PA01
DETERMINATION MADE BY EPA REGION III (AGENCY) DAVID ARNOLD (AGENCY CONTACT PERSON) (215)-597-7936 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/27/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL BOILER	249.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	BAGHOUSE	99.00
		SO2	0.9000 LB/MMBTU	FGD-DRY SCRUBBER	80.00
		NOX	0.7000 LB/MMBTU	COMBUSTION MODIFICATION TECH.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION BASIN ELECTRIC POWER COOP. BEULAH, ND

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) ROBERT KING (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/83
ESTIMATED DATE OF START-UP-- 1987
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	6278.00 MMBTU/H					
		PM	188.0000	LB/H		NSPS
			0.0300	LB/MMBTU		
					BAGHOUSE	99.86
		SO2	2637.0000	LB/H		BACT
			0.6000	LB/MMBTU		
					SPRAY DRYER	88.00
		SO2	30.0000	% OF POTENT. COMBUST. CONC.		
		NOX	2825.0000	LB/H		BACT
			0.4500	LB/MMBTU		
					COMBUSTION CONTROLS, MFG CLAIM	

NOTES ----------
THE SO2 EMISSION RATE IS BASED ON CLASS I AREA IMPACTS , THE TECHNOLOGY INVOLVED, & ECONIMICS. FOR THE EMISSION LIMITS THE MOS
T STRINSENT ONE APPLIES DEPENDING ON OPERATING CONDITIONS.
2637 LB/H OF SO2 IS BASED ON 0.42 LB/MMBTU INPUT AT MAXIMUM PRODUCTION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 880.00 MW

COMPANY NAME/SITE LOCATION BIG RIVERS ELECT. CORP. , KY

DETERMINATION IS
PERMIT NO. C-80-41
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/11/81
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	4585.00 MMBTU/H EA				
		PM	492.0000 T/YR		
		SO2	19686.0000 T/YR		
		NOX	9843.0000 T/YR		
COAL HANDLING	3281.00 MT/YR	PM		LIMITED OPERATING CONDITIONS	
LIMESTONE HANDLING	279000.00 T/YR	PM		LIMITED OPERATING CONDITIONS	

NOTES ----------
OPERATING LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 880.00 MW

COMPANY NAME/SITE LOCATION BIG RIVERS ELECT.-D.B. WILSON STATION LIVERMORE, KY 42352
D.B. WILSON STATION OHIO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-41
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/11/81
ESTIMATED DATE OF START-UP-- 1985
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	4585.00 MMBTU/H EA	PM	0.0300 LB/MMBTU	ESP	BACT 99.80
		SO2	1.2000 LB/MMBTU	WET SCRUBBER	BACT 90.00
		NOX	0.6000 LB/MMBTU	BOILER DESIGN & OPERATION	BACT

NOTES ----------
2 COAL FIRED 440 MW BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 246.00 MW

COMPANY NAME/SITE LOCATION BOARD OF PUBLIC UTILITIES KANSAS CITY, KS
WYANDOTTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/29/76
ESTIMATED DATE OF START-UP-- 1981
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, PULV.	246.00 MW				
		SO2	1.2000 LB/MMBTU	LOW S WESTERN COAL	BACT
		PM	0.1000 LB/MMBTU	ESP	NSPS
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
PLANT NAME: NEARMAN CREEK. THE UNIT IS SUBJECT TO NSPS, SUBPART D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 122.00 MMBTU/H

COMPANY NAME/SITE LOCATION BURLINGTON IND. ERWIN, NC

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NC-032
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/25/80
ESTIMATED DATE OF START-UP--
(919)-733-7120 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	122.00 MMBTU/H	PM	0.3000 LB/MMBTU	DUAL MULTICYCLONE	BACT 93.00
		SO2			BACT

NOTES ----------
SO2 LIMIT 1% S COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 122.00 MMBTU/H

COMPANY NAME/SITE LOCATION BURLINGTON IND. ROCKY MOUNT, NC
NASH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NC-034
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON) (919)-733-7120 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/25/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER,COAL FIRED	122.00 MMBTU/H				
		PM	0.3000 LB/MMBTU		BACT
				DUAL MULTICYCLONE	93.00
		SO2	1.4000 LB/MMBTU		BACT
				LOW S COAL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 6507.00 MMBTU/H

COMPANY NAME/SITE LOCATION CAJUN ELECT. POWER COOP. COUSHATTA, LA
RED RIVER PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-106
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/25/80
ESTIMATED DATE OF START-UP-- 1985
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE FIRED	6507.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS 99.95
		SO2	1.0800 LB/MMBTU	LIME/LIMESTONE SCRUBBER	80.00
		NOX	0.6000 LB/MMBTU	O2 CONTROL	
		CO	0.0900 LB/MMBTU	O2 CONTROL	
COAL PILES					
		PM	20.7000 LB/H	COMPACTION, CRUSTING AGENT	
COAL HANDLING					
		PM	1.6000 LB/H	BAG FILTER	99.90
LIME/LIMESTONE HANDLING AND PIL*					
		PM	2.1000 LB/H	BAG FILTER	99.90

NOTES ----------
A REQUEST FOR PERMIT MODIFICATION WAS RECEIVED AND IS CURRENTLY UNDER REVIEW. BACT WILL BE CHANGED. SO2 LIMIT MAY BE EXPRESSED AS 0.6 LB/MMBTU, 30-DAY ROLLING AVG.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 161.20 MMBTU/H

COMPANY NAME/SITE LOCATION CARGILL, INC.
P.O. DRAWER 878 HARTSVILLE, SC 29550

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY SOUTH CAROLINA DHEC (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/25/81
ESTIMATED DATE OF START-UP--
(803)-758-5406 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, #5 + #6	80.60 MMBTU/H EA				
		PM	29.0000 LB/H		BACT
				FABRIC FILTER	98.00
		SO2	326.9000 LB/H		BACT
				1.28% SULFUR IN COAL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 110000.00 LB/H STEAM

COMPANY NAME/SITE LOCATION CELANESE, AMCELLE PLANT
P.O. BOX 444
CUMBERLAND, MD 21502
ALLEGANY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78MD08-R
DETERMINATION MADE BY EPA REGION III (AGENCY) ED VOLLBERG (AGENCY CONTACT PERSON) (215)-597-8990 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/03/79
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER,COAL-FIRED	110.00 MLB/H				
		PM	9.2400 LB/H		SIP
			40.5000 T/YR		
				SEE NOTES	99.50
		SO2	70.2300 LB/H		PSD
			307.6000 T/YR		
				SEE NOTES	66.50

NOTES ----------
INNOVATIVE TECHNOLOGY -- DRY FGD SYSTEM, SPRAY DRYER, & BAGHOUSE. PM LIMIT IS EQUIVALENT TO 0.021 GR/DSCF. PSD PERMIT EXPIRES 12/31/83.
SOURCE HAS REQUESTED SO2 EMISSIONS BE INCREASED TO 208.3 LB/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION CENTRAL ILLINOIS LIGHT CANTON, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 81 11 0076
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)

DATE OF PERMIT ISSUANCE-- 08/15/80
ESTIMATED DATE OF START-UP-- 1987

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED, 1, EA	400.00 MW				
		PM	0.0300 LB/MMBTU		NSPS
				ESP	99.00
		SO2	0.7800 LB/MMBTU		NSPS
				FGD SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU		NSPS

NOTES ----------
ONE (1) COAL FIRED BOILER UNDER PERMIT, CONSTRUCTION TO COMMENCE BY FEBUARY 1985.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 6781.00 MMBTU/H

COMPANY NAME/SITE LOCATION CENTRAL POWER & LIGHT FANNIN, TX
GOLIAD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-365
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/19/81
ESTIMATED DATE OF START-UP-- 1988
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	6781.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		NSPS
				ELECTROSTATIC PRECIPITATOR	99.60
		SO2	0.3900 LB/MMBTU		NSPS
				FLUE GAS DESULFURIZATION	99.60
		NOX	0.5000 LB/MMBTU		NSPS
				FIRE BOX DESIGN & O2 CONTROL	
		CO	0.0600 LB/MMBTU		BACT
				O2 CONTROL OPTIMAL WITH NOX	
COAL DUMPER,ROTARY	11000.00 T/D COAL				
		PM	29.7600 LB/H		BACT
			149.8000 LB/D		
				WET SUPPRESSION	50.00
CONVEYOR TO SAMPLE HOUSE					
		PM	2.4000 LB/H		BACT
			11.7500 LB/D		
				COVERS, WET SUPPRESSION	99.00
CONVEYOR TO ACTIVE PILE					
		PM	2.2500 LB/H		BACT
			2.2500 LB/D		
				TELESCOPIC CHUTE	99.00
				COVERS, WET SUPPRESSION	

(CONTINUED) CENTRAL POWER & LIGHT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACTIVE COAL PILE					
		PM	5.7800 LB/H	COMPACTION & WET SUPPRESSION	BACT
INACTIVE COAL PILE					
		PM	2.5000 LB/H	COMPACTION	BACT 90.00
COAL CONVEYOR TO TRANSFER HOUSE					
		PM	2.3200 LB/H 6.7200 LB/D	COVERS, WET SUPPRESSION	BACT 99.00
COAL CONVEYOR TO BOILER					
		PM	4.6300 LB/H 13.4400 LB/D	COVERS, WET SUPPRESSION	BACT 99.00
FLYASH HANDLING					
		PM	0.2800 LB/H 1.7000 LB/D	BAG FILTERS PNEUMATIC CONVEYOR TO SILO	BACT 99.00
LIMESTONE CAR DUMP					
		PM	2.7000 LB/H 24.2900 LB/WK	NONE	BACT
LIMESTONE CONVEYOR TO STORAGE					
		PM	0.3500 LB/H 3.1200 LB/WK	COVERED BAG COLLECTOR	BACT 98.00
LIMESTONE CONVEYOR TO BINS					
		PM	0.4000 LB/H 3.6000 LB/WK	COVERED BAG COLLECTOR	BACT 98.00

(CONTINUED) CENTRAL POWER & LIGHT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE STORAGE PILE					
		PM	0.0480 LB/H		BACT
				NONE	
LIMESTONE RECLAIM					
		PM	19.9000 LB/H		BACT
			179.5200 LB/WK		
				NONE	
COAL SAMPLE HOUSE					
		PM	7.0000 LB/H		BACT
			34.3000 LB/D		
				WET SUPPRESSION & COVERED CONVEYORS	99.00
COAL TRANSFER HOUSE					
		PM	7.0000 LB/H		BACT
			34.3000 LB/D		
				COVERED CONVEYORS	99.00
				WET SUPPRESS.& COVERED CONVEY.	
LIMESTONE SILOS					
		PM	0.3500 LB/H		BACT
			3.1500 LB/WK		
				BAG FILTER	99.00
LIMESTONE TRANSFER HOUSE					
		PM	0.1900 LB/H		BACT
			1.7100 LB/WK		
				BAG FILTER	99.00
				ENCLOSED CONVEYOR	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1200.00 MW

COMPANY NAME/SITE LOCATION CINCINATI GAS & ELECTRIC CO. - EAST BEN* , KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-82-072
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UNIT #2	6313.00 MMBTU/H				
		PM	0.1000 LB/MMBTU		
			2970.0000 T/YR		
				ESP, WET SCRUBBER	99.60
		SO2	1.2000 LB/MMBTU		
			35640.0000 T/YR		
				WET SCRUBBER	81.50
		NO2	0.7000 LB/MMBTU		
			20790.0000 T/YR		
UNIT #1	6270.00 MMBTU/H				
		PM	0.1000 LB/MMBTU		
			1650.0000 T/YR		
				ESP	99.50
		SO2	0.8400 LB/MMBTU		
			13860.0000 T/YR		
				WET SCRUBBER	85.00
		NO2	0.7000 LB/MMBTU		
			11550.0000 T/YR		

NOTES ----------
PERMIT COVERS ONLY UNIT #2. UNIT #1 CONSTRUCTION PERMIT C-78-51 ON 8/25/78

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 92.50 MMBTU/H

COMPANY NAME/SITE LOCATION CITY OF WILKES-BARRE WILKES-BARRE, PA
LUZERNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79PA23
DETERMINATION MADE BY EPA REGION III (AGENCY) DAVID ARNOLD (AGENCY CONTACT PERSON) (215)-597-7936 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/01/80
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	92.50 MMBTU/H				
		PM	8.0000 LB/H		BACT
				BAGHOUSE/CYCLONE	99.70
		SO2	199.0000 LB/H		BACT
			1.5000 LB/MMBTU		
				S IN FUEL	

NOTES ----------

(*) INDICATES CATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1320.00 MW

COMPANY NAME/SITE LOCATION COLORADO UTE-CRAIG UNIT #3 NEAR CRAIG, CO
MOFFAT COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/27/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RR CAR	1.87 MMT/YR				
		PM	1.0000 T/YR		BACT
				FF	99.80
ASH SILO VENT	355.00 MT/YR				
		PM	149.0000 T/YR		BACT
				FF	99.80
ASH UNLOAD	355.00 MT/YR				
		PM	34.0000 T/YR		BACT
				HYDROMIXER	59.00
BOILER, 440 MW	214.00 T/H				
		CO			BACT
				NO CONTROL	
		VOC			BACT
				NO CONTROL	
		NOX	0.5000 LB/MMBTU		BACT
				BOILER DESIGN	65.00
		PM	0.0300 LB/MMBTU		BACT
				BAGHOUSE	99.80
		SO2	0.2000 LB/MMBTU		BACT
				DRY SCRUBBER	90.00

(CONTINUED) COLORADO UTE-CRAIG UNIT #3

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL PILE	1.87 MMT/YR	PM	5.0000 T/YR	SURFACTANT	BACT 85.00
CONV.	1.87 MMT/Y	PM	5.0000 T/YR	ENCLOSURES	BACT 90.00
LIME TRANS./STURAGE	37.40 MT/YR	PM	0.0000 T/YR	FF	BACT 99.80
TRANS PTS.	1.87 MMT/Y	PM	0.0000 T/YR	ENC + FF	BACT 99.80

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 137.00 MMBTU/H

COMPANY NAME/SITE LOCATION CURTISS-WRIGHT CORP. WOOD-RIDGE, NJ 07075
1 PASSAIC ST. BERGEN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/13/80
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION II (AGENCY) STEVE RIVA (AGENCY CONTACT PERSON) (212)-264-8684 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PFB BOILER	137.00 MMBTU/H				
		SO2	0.3000 LB/MMBTU		SIP
				PROCESS MOD.	93.00
				CALCIUM/SULFUR, 2/1	
		PM		NONE	
				PROCESS CYCLONES	
		NOX		NONE	
		CO		NONE	

NOTES ----------
TEMPORARY SOURCE - NOT TO OPERATE IN EXCESS OF 3100 H/YR FOR A PERIOD NOT TO EXCEED TWO YEARS FROM START-UP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION DELMARVA POWER & LIGHT VIENNA, MD 21869 DORCHESTER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 80MD01
DETERMINATION MADE BY: EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON) (215)-597-2711 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/30/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	5702.00 MMBTU/H	SO2	0.6000 LB/MBTU		BACT
			70.0000 %EMISSION REDUCTION	SCRUBBER	90.00 BACT
		NOX	0.6000 LB/MBTU		
			65.0000 %EMISSION REDUCTION	BURNER DESIGN	BACT
		CO	0.0400 LB/MBTU	BURNER DESIGN	BACT
		VOC	0.0100 LB/MBTU	BURNER DESIGN	BACT
		VE	20.0000 % OPACITY STACK		BACT
BOILERS & STORAGE PILES	1.20 MMT/YR	PM	0.0300 LB/MBTU	ESP DUST-SUPPRESSANT LIQUID	99.65

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION DESERET GEN & TRANS, MOON LAKE NEAR BONANZA, UT
UINTAH COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/04/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CONV	475.00 T/H COAL				
		PM	1.0000 T/YR	ENC & FF	BACT 99.00
		VE	20.0000 % OPACITY		
COAL CRUSHER	2.70 MMT/YR				
		PM	1.0000 T/YR	ENC & FF	BACT 99.00
		VE	20.0000 % OPACITY		
COAL STORAGE	2.70 MMT/YR				
		PM	2.0000 T/YR	WET SUP	BACT 50.00
		VE	20.0000 % OPACITY		
LIMESTONE HAND.	55.60 MT/YR				
		PM	1.0000 T/YR	ENC & FF	BACT 90.00
		VE	20.0000 % OPACITY		
BOILERS, COAL-FIRED, 2 EA	400.00 MW				
		CO		NO CONTROL	BACT
		VOC		NO CONTROL	BACT
		NOX	0.5500 LB/MMBTU	BOILER DESIGN	BACT 99.60

PM	0.0300	LB/MMBTU	BACT
	0.0200	GR/DSCF	
		FF	99.80
SO2	418.0000	LB/H	BACT
	0.0550	LB/MMBTU	
		WET SCRUBBER	94.00
VE	20.0000	% OPACITY	

NOTES ----------
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR SO2, NOX, OPACITY WILL BE DETERMINED BY CEM REPO
RTS. VE IS STATEPERMIT REQUIREMENT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 526.00 MW MOD.

COMPANY NAME/SITE LOCATION EAST KENTUCKY POWER COOP. MAYSVILLE, KY 40391
P.O. BOX 707 MASON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-76-46
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 12/02/76
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, PULV., COAL FIRED, DRY *	6760.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	HOT SIDE ESP	99.50
		PB		HOT SIDE ESP	99.50
		SO2	1.2000 LB/MMBTU	0.72% S IN FUEL	
		CO			
		NO2			

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 670.00 MMBTU/H

COMPANY NAME/SITE LOCATION EASTMAN KODAK CO., KODAK PARK DIV. ROCHESTER, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C262800 025 00004
DETERMINATION MADE BY NEW YORK DEC (AGENCY)
FRANK SHATTUCK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/20/82
ESTIMATED DATE OF START-UP-- 1986
(716)-226-2466 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	670.00 MMBTU/H	PM	0.0350 LB/MMBTU	ESP	BACT 99.57
		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		NOX	0.7000 LB/MMBTU	COMBUSTION CONTROL	BACT
		CO	0.0450 LB/MMBTU	COMBUSTION CONTROL	BACT
		BE	0.0010 LB/H	ESP	BACT 98.40
COAL CAR UNLOADER		PM	1.1000 LB/H	FABRIC FILTER	BACT 99.00
CRUSHING		PM	0.7500 LB/H	FABRIC FILTER	BACT 99.00
BUNKER		PM	0.0230 LB/H		BACT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH HANDLING					
		PM	0.0750 LB/H		BACT
				FABRIC FILTER	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW, 2 EA

COMPANY NAME/SITE LOCATION E. KENTUCKY POWER CORP. TRAPP, KY
J.K. SMITH POWER STATION CLARK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-67
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 08/21/80
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	6760.00 MMBTU/H EA				
		PM	0.0300 LB/MMBTU		BACT
				ESP	99.80
		SO2	1.2000 LB/MMBTU		BACT
				WET SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU		BACT
				BOILER DESIGN	
BOILER, COAL FIRED	6760.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		BACT
				ESP	99.80
		SO2	1.2000 LB/MMBTU		BACT
				WET SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU		BACT
				BOILER DESIGN	

NOTES ----------
STARTUP UNIT 1 8/84, UNIT 2 8/85

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 245.00 MMBTU/H COAL

COMPANY NAME/SITE LOCATION E.I. DUPONT PHOENIX, NC
BRUNSWICK COUNTY

DETERMINATION IS BACT
PERMIT NO. NC-067
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/25/80
ESTIMATED DATE OF START-UP--
(919)-733-6126 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	245.00 MMBTU/H COAL				
		PM	0.1000 LB/MMBTU		BACT
			24.5000 LB/H		
				BAGHOUSE	99.00
		SO2	2.2000 LB/MMBTU		BACT
				1.4% S COAL	
		NOX	0.7000 LB/MMBTU		NSPS
				BOILER OPERATION & DESIGN	

NOTES ----------
TWO COAL FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 97.00 MMBTU/H EA

COMPANY NAME/SITE LOCATION E.I. DUPONT WINONA, SC 29501

FLORENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) SC-034
DETERMINATION MADE BY SOUTH CAROLINA DHEC (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/09/80
ESTIMATED DATE OF START-UP--
(803)-758-5406 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL, #1 + #2	97.00 MMBTU/H EA				
		PM	0.0860 LB/MMBTU	BACT	
				BAGHOUSE	99.90
		SO2	1.7000 LB/MMBTU	BACT	
				1% SULFUR IN COAL	
		NOX	0.7000 LB/MMBTU	BACT	
				BOILER OPERATION & DESIGN	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1220.00 BTU/H

COMPANY NAME/SITE LOCATION FLORIDA POWER CORP. CRYSTAL RIVER, FLA., FL 33733
CITRUS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AC52-36102
DETERMINATION MADE BY FLORIDA DER (AGENCY) ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/15/80
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLY ASH HANDLING UNITS	55000.00 LB/H				
		PM	4.0000 LB/H	BAGHOUSE	BACT 99.90

NOTES ----------
ADDED ESP TO EXISTING BOILER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 58.00 MW

COMPANY NAME/SITE LOCATION GRAND HAVEN BOARD OF LT & PWR
HARBOR ISLAND
GRAND HAVEN, MI 49417
MUSKEGON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 541-79
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
JOHN CAUDELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/18/80
ESTIMATED DATE OF START-UP-- 1983
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED BOILER	710.00 MMBTU/H	PM	0.0300 LB/MMBTU	ESP	99.80
		SO2	0.8400 LB/MMBTU 30 D AV 0.8000 LB/MMBTU 24 H AVG.	LIME SLURRY WET SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU 30 D AV		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 490.00 MW

COMPANY NAME/SITE LOCATION GRAND RIVER DAM AUTHORITY , OK 74361

MAYES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-OK-51
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED GEN STATION	490.00 MW	SO2	1.2000 LB/MMBTU		
			6157.2000 LB/H		
				LOW S COAL	
		PM	0.1000 LB/MMBTU		
			513.1000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 88.40 MMBTU/H

COMPANY NAME/SITE LOCATION GREENWOOD MILLS, INC. ORANGEBURG, SC

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SC035
DETERMINATION MADE BY SOUTH CAROLINA DHEC (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/03/80
ESTIMATED DATE OF START-UP--
(803)-758-5406 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL BOILER	88.40 MMBTU	SO2	1.4100 LB/MMBTU	1% S IN FUEL	BACT
		NOX	0.5500 LB/MMBTU	COMBUSTION MODIFICATION	BACT
		PM	0.0400 LB/MMBTU	CYCLONES FOLLOWED BY BAGHOUSES	99.98
			SEE NOTE		

NOTES ----------
PRELIMINARY STACK TESTS INDICATE TSP EMISSIONS OF .08 LB/MILLION BTU, ON VERYHIGH QUALITY COAL. WE EXPECT THE SOURCE TO REQUES
T THIS LIMIT BE REVISED UPWARD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 113.00 MMBTU/H

COMPANY NAME/SITE LOCATION GRIFFISS AIR FORCE BASE ROME, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 30130004760029A-N
DETERMINATION MADE BY NEW YORK DEC (AGENCY) DAVID PROSSER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/28/83
ESTIMATED DATE OF START-UP-- 1985
(315)-782-0100 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILERS, 4	113.00 MMBTU/H EA				
		PM	0.0500 LB/MMBTU	FABRIC FILTER	98.00
		SO2	0.7100 LB/MMBTU	DRY SCRUBBER	85.00
		NOX	0.6200 LB/MMBTU	STAGED COMBUSTION	BACT
LIME SILO		PM	0.0500 GR/DSCF	FABRIC FILTER	SIP 99.00
COAL SILO		PM	0.0500 GR/DSCF	FABRIC FILTER	SIP 99.00
ASH SILO		PM	0.0500 GR/DSCF	FABRIC FILTER	SIP 99.00
ASH HANDLING		PM	0.0500 GR/DSCF	FABRIC FILTER	SIP 99.00

(CONTINUED) GRIFFISS AIR FORCE BASE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIME BLOWER		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
LIME BIN		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
RECOVERY BIN		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
COAL CONVEYOR		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
COAL BUNKER		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00
COAL HANDLING		PM	0.0500 GR/DSCF FABRIC FILTER	SIP 99.00

NOTES ----------
BOILER PM & SO2 EMISSION LIMITS SPECIFIED FOR NETTING PURPOSES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION HOLYOKE WATER POWER CO., MT. TOM PWR PL* HOLYOKE, MA

DETERMINATION IS RACT FOR A MODIFIED SOURCE.
PERMIT NO. APPR. LTR 10-27-82
DETERMINATION MADE BY MASSACHUSETTS DEQE - AIR (AGENCY) DAVID HOWLAND (AGENCY CONTACT PERSON) (617)-727-8640 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/27/82
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL COMBUSTION	1447.00 MMBTU/H			
		S	1.2100 LB/MMBBTU MONTHLY AV	RACT
			1.6000 LB/MMBTU DAILY AV	
		PM	0.0800 LB/MMBTU	RACT
			ESP	99.51
		NO2		

NOTES ----------
ONE UNIT - 155 MW. VOLUNTARY COAL CONVERSION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER HOUSTON, TX

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-33
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/28/77
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED STEAM ELECT. GEN	550.00 MW				
		SO2	1.2000 LB/MMBTU		
			573.0000 LB/H		
				LOW S WESTERN COAL	
		PM	0.1000 LB/MMBTU		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER THOMPSONS, TX
FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-234
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/12/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	5729.00 MMBTU/H				
		SO2	0.3600 LB/MMBTU		NSPS
				LIMESTONE SCRUBBER	70.00
		NOX	0.5000 LB/MMBTU		NSPS
				02 CONTROLS, TANGENTIAL BURNERS	
		CO	0.0590 LB/MMBTU		
				02 CONTROLS	
		PM	0.0300 LB/MMBTU		NSPS
				FABRIC FILTER	99.72
LIMESTONE UNLOAD					
		PM	0.1000 LB/H		BACT
				WET SUPPRESION/BOTTOM DUMP	90.00
ACTIVE LIMESTONE PILE					
		PM	0.1000 LB/H		BACT
				ENCLOSED	
INACTIVE LIMESTONE PILE					
		PM	0.1000 LB/H		BACT
				ENCLOSED	

(CONTINUED) HOUSTON LIGHTING & POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE CONVEYERS & TRANSFER *					
		PM	0.5000 LB/H		BACT
				ENCLOSED	90.00
LIMESTONE CRUSHER					
		PM	0.1000 LB/H		BACT
				BAGHOUSE	99.50
LIMESTONE FEED SILO					
		PM	0.1000 LB/H		BACT
				BAGHOUSE	99.50
FLY ASH MIX TANK					
		PM	0.7000 LB/H		BACT
				WILL BE A SLURRY	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 727.00 MW

COMPANY NAME/SITE LOCATION IA SOUTHERN UTILITIES (CENTERVILLE, IA.) (NEAR) CHILLICOTHE, IA
OTTUMWA STATION
WAPELLO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/01/76
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, STEAM GEN, COAL FIRED					
		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT

NOTES ----------
THE PERMIT WAS AMMENDED ON 03/30/78 TO ADDRESS PARTICULATE MATTER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 165.00 MMBTU/H

COMPANY NAME/SITE LOCATION IDAHO NAT ENGINEERING LAB. IDAHO FALLS, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-11
DETERMINATION MADE BY EPA REGION X (AGENCY) DAVID TETTA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/05/81
ESTIMATED DATE OF START-UP-- 1983
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	82.50 M EA				
		SO2	99.2000 LB/H	FLUIDIZIED BED	BACT
		NOX	0.5000 LB/MMBTU	COMBUSTION CONTROLS	BACT
		PM	0.0500 GR/DSCF	BAGHOUSE	99.00
FUGITIVE EMISSIONS		PM	0.0100 GR/ACF	BAGHOUSE	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 980.00 MW

COMPANY NAME/SITE LOCATION INDIANA STATEWIDE RURAL ELEC. COOP., ME* , IN
SULLIVAN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-7
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/28/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	490.00 MW			
		PM	0.1000 LB/MMBTU	NSPS
		SO2	1.2000 LB/MMBTU	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2600.00 MW

COMPANY NAME/SITE LOCATION INDIANA & MICHIGAN ELEC. CO., ROCKPORT * ROCKPORT, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-78-A-1
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/27/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	1300.00 MW			
		PM	0.1000 LB/MMBTU	NSPS
		SO2	1.2000 LB/MMBTU	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1950.00 MW

COMPANY NAME/SITE LOCATION INDIANAPOLIS POWER & LIGHT CO., PATRIOT* , IN
SWITZERLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-8
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/14/79
ESTIMATED DATE OF START-UP--
(312)-686-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 3 EA	650.00 MW				
		PM	0.0300 LB/MMBTU		
		SO2	0.5500 LB/MMBTU	SCRUBBER	
		NOX	0.6000 LB/MMBTU		91.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 3000.00 MW

COMPANY NAME/SITE LOCATION INTERMOUNTAIN PWR PROJECT-IPP NEAR LYNNDYL, UT
MILLARD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) (303)-837-3763 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/08/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH UNLOAD		PM	64.0000 LB/H	HYDROMIXER	BACT 99.00
		VE	20.0000 % OPACITY		
4 BOILERS	3000.00 MW	CO	1248.0000 LB/H		BACT
		VOC	375.0000 LB/H		BACT
		NOX	0.5500 LB/MMBTU	DESIGN	BACT 65.00
		PM	0.0200 LB/MMBTU	ESP	BACT 99.80
		SO2	0.1500 LB/MMBTU	SCRUBBER	BACT 90.00
		VE	20.0000 % OPACITY		
COAL CONV	10.00 MMT/YR	PM	17.0000 LB/H	ENCLOSURE	BACT 90.00
		VE	20.0000 % OPACITY		
COAL CRUSHING	10.00 MMT/YR	PM	1.0000 LB/H	BAGHOUSE	BACT 99.80
		VE	20.0000 % OPACITY		

(CONTINUED) INTERMOUNTAIN PWR PROJECT-IPP

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL STORAGE	10.00 MMT/YR				
		PM	27.0000 LB/H		BACT
				CRUSHING MGMT	90.00
		VE	20.0000 % OPACITY		
COAL UNLOAD	10.00 MMT/YR				
		PM	2.0000 LB/H		BACT
				WET SUPPRES.	98.50
		VE	20.0000 % OPACITY		
HAUL ROADS					
		PM	1.0000 LB/H		BACT
				CHEM. SUPPRES.	85.00
LIME STORAGE					
		PM	0.1000 LB/H		BACT
				BAGHOUSE	99.80
		VE	20.0000 % OPACITY		
CONV/TRANSFER	10.00 MMT/YR				
		PM	4.0000 LB/H		BACT
				BAGHOUSE	98.80
		VE	20.0000 % OPACITY		

NOTES ----------
THIS PROJECT IS UNDER CURRENT RE-REVIEW SINCE THE PROJECT HAS BEEN DOWN SIZED TO 2 UNITS VERSES THE ORIG.4. STRONGLY RECOMMEND THIS BE DELETED ANDWE WILL UPDATE THE ABOVE INFO AS SOON AS RE-EVALUATION IS COMPLETED (PROB. MAY 1983.
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION IOWA ELECTRIC LIGHT & POWER CO. PANORA, IA
GUTHRIE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/29/82
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATING COAL-FIRED BOI*	400.00 T/H COAL				
		SO2	0.6000	LB/MMBTU DAILY MAX WET LIMESTONE SCRUBBER LOW S COAL	BACT
		NOX	0.5000	LB/MMBTU 30 D R AVG COMBUSTION DESIGN	BACT
		PM	0.0300	LB/MMBTU ELECT. PRECIP.	
		VE	20.0000	% OPACITY	BACT
MATERIAL HANDLING					
		PM	0.0100	GR/DSCF BAGHOUSES	BACT
		VE	20.0000	% OPACITY	BACT

NOTES ----------
SOURCE IS SUBJECT TO NSPS, SUBPART DA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW

COMPANY NAME/SITE LOCATION IOWA-ILLINOIS GAS & ELECT. , IA
LOUISA STATION LOUISA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/16/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	7000.00 MMBTU/H				
		NOX	0.6000 LB/MMBTU	BOILER DESIGN	BACT
		PM	0.0300 LB/MMBTU	ESP	BACT
		SO2	0.8600 LB/MMBTU 24H AV		BACT
			1.0500 LB/MMBTU 3H AV	LOW S COAL	

NOTES ----------
PERMIT ORIGINALLY ISSUED 07/07/79.

53600.0 LB/DAY TOTAL ALLOWED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW

COMPANY NAME/SITE LOCATION JACKSONVILLE ELECT. AUTHORITY NORTHSIDE JACKSONVILLE, FL 32208 DUVAL COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-010
DETERMINATION MADE BY FLORIDA DER (AGENCY)
ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/01/82
ESTIMATED DATE OF START-UP-- 1984
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN. UNIT	600.00 MW EA	SO2	0.7600 LB/MMBTU	LIME/LIMESTONE FGD	BACT 90.00
		PM	0.0300 LB/MMBTU	ESP	NSPS 99.78
		NOX	0.6000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
TWO UNITS AT 600.0 MW EACH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 630.00 MW

COMPANY NAME/SITE LOCATION KANSAS CITY POWER & LIGHT
IATAN STATION
IATAN, MO
PLATTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/07/77
ESTIMATED DATE OF START-UP-- 1981
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, PULV.	630.00 MW				
		PM	0.1000 LB/MMBTU	ESP	BACT 99.40
		SO2	1.2000 LB/MMBTU	LOW S WESTERN COAL	BACT
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
THE UNIT IS SUBJECT TO NSPS, SBPART D. THE PSD REGS. ADDRESSED ONLY PM AND SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2880.00 MW (TOTAL, 4 UNIT C*

COMPANY NAME/SITE LOCATION KANSAS POWER & LIGHT CO. ST. MARY'S, KS
JEFFREY ENERGY CENTER POTTAWATOMIE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILERS, UNITS 3 AND*	720.00 MW EA				
		SO2	1.2000 LB/MMBTU	WET LIMESTONE SPRAY TOWERS	BACT 60.00
		PM	0.1000 LB/MMBTU	2 COLD SIDE ESP'S PER UNIT	BACT 99.20
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
THE UNITS ARE SUBJECT TO NSPS, SUBPART D. BACT EMISSION LIMITS FOR NOX AND CO WERE NOT SET BECAUSE THE REGS. ADDRESSED ONLY PM AND SO2. PLANT NAME: JEFFREY ENERGY CENTER.
UNITS 1 AND 2 WERE NOT SUBJECT TO PSD REVIEW. UNIT 3 STARTUP 1982. UNIT 4 STARTUP 1984.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1300.00 MW

COMPANY NAME/SITE LOCATION KENTUCKY POWER - CARR'S FAC.
LEWIS COUNTY POWER PLANT
ASHAD, KY
LEWIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-42
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/18/80
ESTIMATED DATE OF START-UP-- 1989
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER BOILER	11943.00 MMBTU/H EA				
		SO2	0.6000 LB/MMBTU	FGD	BACT 95.00
		PM	0.0300 LB/MMBTU	ESP	BACT 99.81
		NOX	0.6000 LB/MMBTU	BOILER DESIGN & OPERATION	BACT

NOTES ----------
TWO UNIT COAL BURNING POWER PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1300.00 MW

COMPANY NAME/SITE LOCATION KENTUCKY UTILITIES - HANCOCK POWER PLANT LEXINGTON, KY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-82-123
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/15/82
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UNIT #1	6650.00 MMBTU/H					
		PM	0.0300	LB/MMBTU		
			874.0000	T/YR		
					ESP	99.80
		CO	1397.0000	T/YR		
		SO2	1.2000	LB/MMBTU		
			15768.0000	T/YR		
					WET SCRUBBER	91.80
		NO2	0.6000	LB/MMBTU		
			17476.0000	T/YR		
UNIT #2	6650.00 MMBTU/H					
		PM	0.0300	LB/MMBTU		
			874.0000	T/YR		
					ESP	99.80
		CO	1397.0000	T/YR		
		SO2	1.2000	LB/MMBTU		
			15768.0000	T/YR		
					WET SCRUBBER	91.80
		NO2	0.6000	LB/MMBTU		
			17476.0000	T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 233.90 MMBTU/H

COMPANY NAME/SITE LOCATION LITHIUM CORP. BESSEMER CITY, NC

GASTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NC-075
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/12/81
ESTIMATED DATE OF START-UP--
(919)-733-6126 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	233.90 MMBTU/H				
		PM	0.1100 LB/MMBTU		BACT
			114.8000 T/YR		
				ESP	98.60
		SO2	2.2700 LB/MMBTU		BACT
				1.43% SULFUR COAL	
		NOX	0.0700 LB/MMBTU		NSPS
				BOILER DESIGN	
		CO	1.0000 LB/T COAL		BACT
				BOILER DESIGN	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION LOUISVILLE GAS & ELECT. - TRIMBLE CNTY * WISES LANDING, KY TRIMBLE COUNTY

DETERMINATION IS
PERMIT NO. C-78-34
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/27/78
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INDIRECT HEAT EXCHANGER	4851.00 MMBTU/H	PM	0.1000 LB/MMBTU 1275.0000 T/YR	ESP	99.60
		SO2	1.2000 LB/MMBTU 10790.0000 T/YR	WET SCRUBBER	90.00
		NOX	0.7000 LB/MMBTU 8924.0000 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION LOUISVILLE GAS & ELECT. - WISE'S LANDIN* , KY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-79-53
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/01/79
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INDIRECT HEAT EXCHANGER	4851.00 MMBTU/H				
		PM	0.1000 LB/MMBTU 1275.0000 T/YR	ESP	
		SO2	1.2000 LB/MMBTU 10790.0000 T/YR	WET SCRUBBER	99.60
		NOX	0.7000 LB/MMBTU 8924.0000 T/YR		90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 18000.00 LB/H STEAM PROD.

COMPANY NAME/SITE LOCATION L.D.S. CHURCH WELFARE SQUARE , UT

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) CARL BROADHEAD (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/01/82
ESTIMATED DATE OF START-UP-- 1982
(801)-533-6108 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	18000.00 LB/H STEAM	PM	0.0400 GR/DSCF	BAGHOUSE	
		VE	20.0000 % OPACITY		
		SO2			
		NOX			

NOTES ----------
BAGHOUSE INSTALLED TO CORRECT OPACITY PROBLEMS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 517.60 MMBTU/H

COMPANY NAME/SITE LOCATION MARQUETTE BOARD OF LT & PWR
SHIRAS GENERATING STA.
MARQUETTE, MI 49855
MARQUETTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 65-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
DAVID FERRIER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/01/80
ESTIMATED DATE OF START-UP-- 1982
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED	517.60 MMBTU/H				
		PM	0.0300 LB/MMBTU	BAGHOUSE	99.90
		SO2	0.4000 LB/MMBTU	SPRAY LIME FGD UNIT LOW SULFUR WESTERN COAL	70.00
		NOX	0.5000 LB/MMBTU	LONG. FIRING + EXCESS AIR CON.	
COAL & ASH HANDLING & STORAGE					
		PM	0.0300 GR/DSCF	BAG FILTER CONTROL ENCLOSURES, DUST SUPPRESSANTS	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 94.60 MMBTU/H

COMPANY NAME/SITE LOCATION MIAMI PAPER CORP. WEST CARROLLTON, OH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 0857190134 B002, B0*
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY)
AMY WRIGHT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/25/82
ESTIMATED DATE OF START-UP-- 1982
(513)-225-4435 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STOKER BOILER, 2	47.30 MMBTU/H EA	PM	0.1500 LB/MMBTU	WET SCRUBBER	97.10
		SO2	1.6000 LB/MMBTU	WET SCRUBBER	23.60

NOTES ----------
BOTH COAL BOILERS ARE CONTROLLED BY A SINGLE SLY MANUFACTURING WET SCRUBBER. SO2 EMISSIONS REDUCTIONS WERE QUANTIFIED FOR A PO
SSIBLE PERCENT SULFUR COAL CREDIT, THEREBY ALLOWING THIS COMPANY TO BURN SLIGHTLY HIGHER SULFUR CONTENT COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500000.00 LB/H

COMPANY NAME/SITE LOCATION MICHIGAN SOUTH CENTRAL POWER AGENCY LITCHFIELD, MI 49242
HILLSDALE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 607-78
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) JOHN CAUDELL (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/16/80
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED BOILER	500000.00 LB/H				
		PM	0.0300 LB/MMBTU	ESP	99.70
		SO2			NSPS
				LIMESTONE SPRAY SCRUB	90.00
		NOX	0.6000 LB/MMBTU	CONTRL EXCESS & OVERFIRE AIR	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION MINNESOTA POWER & LIGHT CO., CLAY-BOSWE* COHASSET, MN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-6
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/16/77
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	500.00 MW	PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 150.00 MMBTU/H

COMPANY NAME/SITE LOCATION MONSANTO CO. MUSCATINE, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER B-8 SPREADER-STOKER	150.00 MMBTU/H				
		SO2	1.9500 LB/MMBTU 3HR R. AVG	PERCENT SULFUR CONTENT	BACT
		PM	0.0300 LB/MMBTU	BAGHOUSE	BACT
		NOX	0.6000 LB/MMBTU 30 D R AVG	NO AIR PREHEAT	BACT
		VE	20.0000 %, 6 MIN AVG.		BACT
ASH HANDLING					
		PM	0.0100 GR/DSCF	BAGHOUSE	BACT
		VE	20.0000 % OPACITY		BACT
COAL HANDLING					
		PM	0.0100 GR/DSCF	BAGHOUSE	BACT
		VE	20.0000 % OPACITY		BACT

NOTES ----------
BY-PASSING OF THE BOILER'S BAGHOUSE IS LIMITED TO 20 HOURS PER YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 98.30 MMBTU/H

COMPANY NAME/SITE LOCATION MORGANTOWN ENERGY RESEARCH CENTER MORGANTOWN, WV
MORGANTOWN ENERGY RESEARCH CE* MONONGALIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78WV08
DETERMINATION MADE BY EPA REGION III (AGENCY) EILEEN GLEN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/20/79
ESTIMATED DATE OF START-UP--
(215)-597-8187 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUIDIZED BED BOILER	98.30 MMBTU/H	PM	5.4000 LB/H	CENTRIF. COLL. & FABRIC FILTER	BACT 99.00
		SO2	86.0000 LB/H		BACT
		NOX	34.0000 LB/H		BACT
COAL/LIMESTONE DRYER	52.00 CF/H			FABRIC FILTER	99.00
COAL/LIMESTONE DRYER	13230.00 T COAL				
COAL/LIMESTONE DRYER	6600.00 T LIMESTONE				
COAL/LIMESTONE UNLOAD	20000.00 T COAL LIME*			FABRIC FILTER	99.90
COAL/LIMESTONE CONVEYORS	20000.00 T COAL LIME*			FABRIC FILTER	99.90

NOTES ----------
PROJECT CANCELLED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 166.00 MW (GROSS)

COMPANY NAME/SITE LOCATION MUSCATINE POWER & WATER MUSCATINE, IA
MUSCATINE COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/24/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, UNIT #9, COAL/OIL/GAS	166.00 MW				
		PM	0.0300 LB/MMBTU		LAER
				COLDSIDE ESP	99.70
		SO2	0.4500 LB/MMBTU 30D R AV		LAER
			0.5600 LB/MMBTU MAX D AV		
				WET-LIMESTONE SCRUBBER	92.00
		NOX	0.6000 LB/MMBTU		BACT
				BOILER DESIGN	
COAL HANDLING					
		PM	0.0100 GR/SCF		LAER
				BAGHOUSE	99.99
ASH HANDLING					
		PM	0.0200 GR/SCF		LAER
				BAGHOUSE	99.98

NOTES ----------
LAER'S ESTABLISHED BY THE IOWA DEPT. OF ENVIRONMENTAL QUALITY, CONTACT - AFTER 7/1/83, THE IOWA DEPT. OF WATER, AIR, & WASTE MANAGEMENT, 515-281-8924. UNIT 9 WILL BURN SOUTHERN ILL. COAL. SO2 & PM OFFSETS WILL BE OBTAINED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION NE PUBLIC POWER DIST./GENTLEMAN #2 SUTHERLAND, NE
GERALD GENTLEMAN STATION (UNI* LINCOLN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/09/77
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, STEAM GEN, COAL FIRED	650.00 MW				
		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION NEBRASKA PUBLIC POWER DIST. COMSTOCK STATION , NE

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY NEBRASKA DEC (AGENCY) GENE ROBINSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/16/80
ESTIMATED DATE OF START-UP--
(402)-471-2186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	650.00 MW				
		PM	0.0300	LB/MMBTU	
				FABRIC FILTER	99.90
		SO2	70.0000	% REMOVAL	
			0.3800	LB/MMBTU-30 D AVG	
				DRY SCRUBBER	70.00
		NO2	0.5000	LB/MMBTU 30 D AV	
		CO	50.0000	PPM	
COAL HANDLING					
		PM	20.0000	% OPACITY	
				FABRIC FILTER	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 560.00 MW EA

COMPANY NAME/SITE LOCATION NEVADA POWER CO.
25 MILES NE OF LAS VEGAS , NV

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NV-77-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) LARRY BOWERMAN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/13/81
ESTIMATED DATE OF START-UP--
(415)-974-8213 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 4 EA	560.00 MW	CO	320.0000 LB/H		BACT
			50.0000 PPM AT 20% EXCESS AIR		
				PROPER BOILER DESIGN	
				EXCESS AIR MONITORING	
		NOX	2498.0000 LB/H		BACT
			0.4400 LB/MMBTU		
				PROPER BOILER DESIGN W/ COMBUSTION AND LOW NOX*	
		SO2	566.0000 LB/H		BACT
			0.1000 LB/MMBTU		
				ONE (1) WET LIME SCRUBBER	95.00
				TWO (2) STANDBY MODULES TO IMPROVE SYSTEM RELI*	
		PM	0.0150 LB/MMBTU		BACT
			10.0000 % OPACITY		
				BAGHOUSE, UNLESS ESP DESIGN APPROVED	99.76
		VOC			
				PROPER BOILER DESIGN	
				COMBUSTION MONITORS	
		PB			BACT
		BE		NONE	
				SAME AS LEAD	
		HG		NONE	
				PM AND SO2 CONTROLS EQUIPMENT	

		MONITOR HG CONTENT IN COAL
FLU*	9.0000	LB/H
		SAME AS MERCURY
H2S*	13.0000	LB/H
		SAME AS MERCURY W/O COAL MONITORING

(CONTINUED) NEVADA POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILERS, 4	31250.00 T/D				
		PM	11.4000 T/YR	VENTURIES TO WET SCRUBBER OR BAGHOUSE	99.00
				ENCLOSURE AND WETTING TRANSFER POINTS	
ACTIVE COAL STORAGE SILOS					
		PM		TRACE	
				BAGHOUSE ON SILO VENTS	95.00
COAL DEWATERING PLANT					
		CO	26.0000 LB/H		
			50.0000 PPM		
				SAME AS FOR BOILERS	
		NOX	204.0000 LB/H		
			0.4400 LB/MMBTU		
				SAME AS FOR BOILERS	
		SO2	46.0000 LB/H		
			0.1100 LB/MMBTU		
				SAME AS FOR BOILERS	
		BE		NONE	
				SAME AS FOR BOILERS	
		HG		NONE	
				SAME AS FOR BOILERS	
		FLU*	1.0000 LB/H		
			2.0000 LB/H		
				SAME AS FOR BOILERS	
		H2S*	1.0000 LB/H		
			2.0000 LB/H		
				SAME AS FOR BOILERS	
INACTIVE COAL STORAGE PILE				COMPACTION & CHEMICAL STABILIZATION W/BINDING *	90.00
LIME CONVEYING, TRANSFER, STORA*				BAGHOUSES ON LIME SILO AND SLAKER VENTS. PNEUMATIC UNLOADING, ENCLOSED CONVEYORS	

(CONTINUED) NEVADA POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH HANDLING,STOR. & DISPOSAL				
			SILO VENTED TO BAGHOUSE. FLY ASH PNEUMATICALLY CONVEYED TO SILO.	
PLANT ACCESS & HAUL ROADS				
		FUG*		
			MOST ROADS PAVED AND 20 MPH SPEED LIMIT	
FUEL OIL STORAGE	3.10 MMGAL			
		VOC		
			FIXED OR FLOATING ROOT	

NOTES ----------
(250) LB/HR LIMITS APPLY TO ANY CONSECUTIVE 24-HOUR PERIOD, ALL OTHER ARE FORCONSECUTIVE 30-DAY PERIOD AS DETERMINED BY CONTIN
UOUS MONITORING SYS. OPACIT Y LIMIT (6 MINUTE AVERAGE) CANNOT BE EXCEEDED
EXCEPT FOR ONE 6-MINUTE PERIOD PER HOUR OF NOT MORE THAN 15% OPACITY AS DETERMINED BY METHOD 9 OR THE OPACITY MONITORING SYS.
BACT FOR PM REPRESENTS BACT FOR LEAD. TRACE EQUALS LESS THAN 0.1 T/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1080.00 MW

COMPANY NAME/SITE LOCATION NEW ENGLAND POWER CO., BRAYTON POINT ST* SOMERSET, MA

DETERMINATION IS RACT FOR A MODIFIED SOURCE.
PERMIT NO. APPR. LTR 10-01-80
DETERMINATION MADE BY MASSACHUSETTS DEVE - AIR (AGENCY) VAUGHAN STEEVES (AGENCY CONTACT PERSON) (617)-727-1440 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/01/80
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL COMUSTION	10625.00 MMBTU/H	S	1.2100 LB/MMBTU MONTHLY AV 2.3100 LB/MMBTU DAILY AV		RACT
		PM	0.0800 LB/MMBTU	ESP	RACT 99.30
		NO2			

NOTES ----------
PM TESTED AT 0.034 LB/MMBTU, 0.016 LB/MMBTU, & 0.010 LB/MMBTU FOR UNITS 1 - 3, RESPECTIVELY. THREE UNITS COMBINED - 250 MW, 25 0 MW, & 580 MW. VOLUNTARY COAL CONVERSION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 82.60 MMBTU/H

COMPANY NAME/SITE LOCATION NORFOLK & WESTERN RAILWAY CO. ROANOKE, VA
ROANOKE CITY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79VA14
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/14/80
ESTIMATED DATE OF START-UP-- 1984
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER,COAL-FIRED	82.60 MMBTU/H					
		PM	0.2280	LB/MMBTU		BACT
			56.5000	LB/H		
					ESP	95.40
		SO2	2.1100	LB/MMBTU		BACT
			523.1000	LB/H		
					SULFUR IN FUEL LIMITS	

NOTES ----------
TOTAL BOILERHOUSE (4 BOILERS) LIMITED TO 210,000 LB/HR STEAM OUTPUT. SULFER-IN-FUEL = 1.5% MAX PER SAMPLE, 1.25% MAX MONTHLY AVERAGE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 7934.00 MMBTU/H

COMPANY NAME/SITE LOCATION NORTHERN INDIANA PUBLIC SERVICE CO. WHEATFIELD, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-18
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/31/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL-FIRED, 2 EA	3967.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ESP	99.73
		SO2	0.6200 LB/MMBTU	SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU		
FUGITIVE EMISSIONS, CRUSHER HOU*		PM		BAGHOUSE	99.00
FUGITIVE EMISSIONS, CONVEYORS		PM		ENCLOSED COAL CONVEYORS	
FUGITIVE EMISSIONS, FLYASH & HA*		PM		BAGHOUSE WETTED COAL	

NOTES ----------
TWO BOILERS UNDER PERMIT. TRUCKS UTILIZIED FOR ASH DISPOSAL SHALL BE COVERED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MW

COMPANY NAME/SITE LOCATION NORTHERN STATE POWER CO., SHERBURNE STA BECKER, MN
SHERBURNE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-2
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/25/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	800.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 635.00 MW

COMPANY NAME/SITE LOCATION NY STATE ELECT. & GAS - CYUGA STATION SOMERSET, NY NIAGARA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/29/81
DETERMINATION MADE BY EPA REGION II (AGENCY) BARRY TORNICK (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP-- 1986
(212)-264-9579 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MAIN BOILER	1750.00 MMBTU/H	PM	0.0300 LB/MMBTU	ESP	BACT
		SO2	0.7000 LB/MMBTU		BACT
			0.6000 LB/MMBTU	FGD & S<3.6% BY WT.	90.00
		NOX	0.6000 LB/MMBTU	GOOD DESIGN & COMBST PRACT.	BACT
		CO		GOOD COMBST PRACT.	BACT
		FLU*		FGD SYSTEM	BACT
		PB		ESP/FGD	BACT
		HG		ESP/FGD	BACT
		BE		ESP/FGD	BACT
AUXILIARY BOILERS, 2	195.00 MMBTU/H	SO2		USE OF #2 FUEL OIL	BACT
		NOX		USE OF #2 FUEL OIL	BACT

(CONTINUED) NY STATE ELECT. & GAS - CYUGA STATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL HANDLING	200000.00 T/YR			
		PM		BACT
			FABRIC FILTER H2O SPRAY & ENCLOSED SYS.	
LIMESTONE HANDLING				
		PM		BACT
			FABRIC FILTER H2O SPRAY & ENCLOSED SYS.	
FLYASH HANDLING				
		PM		BACT
			FABRIC FILTER	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION OKLAHOMA GAS & ELECT. CO. BEDROCK, OK
NOBLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-218
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/05/81
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEN. UNITS, COAL-FIRED, 2 EA	5250.00 MMBTU/H				
		SO2	0.4600 LB/MMBTU		NSPS
				FLUE GAS DESULFURIZATION	70.00
		NOX	0.5000 LB/MMBTU		NSPS
				EXCESS AIR	
		CO	0.0640 LB/MMBTU		BACT
				COM. CONTROLS & PROPER OPER.	
		PM	0.0300 LB/MMBTU		NSPS
				ESP OR BAGHOUSE	99.60
TUNNELS, COAL RECLAM., 2 EA					
		PM	2.8000 LB/H		BACT
				DUST COLLECTOR	98.00
COAL CRUSHER TOWER					
		PM	3.4000 LB/H		BACT
				DUST COLLECTOR	98.00
BIN TOWERS, COAL SURGE, 2 EA					
		PM	3.9000 LB/H		BACT
				DUST COLLECTOR	98.00

(CONTINUED) OKLAHOMA GAS & ELECT. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL SILOS, 2 EA					
		PM	3.7000 LB/H	DUST COLLECTOR	BACT 98.00
COAL STORAGE PILES	80.00 LB/ACRE-H				
		PM	5.8000 LB/ACRE	CHEMICAL & WATER STABILIZERS	BACT

NOTES ----------
OKLAHOMA GAS & ELECTRIC COMPANY, UNIT #3.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION OKLAHOMA GAS & ELECT. CO. MUSKOGEE, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-OK-57
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	550.00 MW				
		SO2	1.2000 LB/MMBTU		
			6180.0000 LB/H		
				LOW S WESTERN COAL	
		PM	0.1000 LB/MMBTU		
			212.0000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 625.00 MW ONE

COMPANY NAME/SITE LOCATION PENNSYLVANIA ELECT. CO.
COHO-1
LAKE CITY, PA
ERIE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78PA13
DETERMINATION MADE BY EPA REGION III (AGENCY) DAVID ARNOLD (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/18/81
ESTIMATED DATE OF START-UP-- 1989
(215)-597-7936 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UTILITY BOILER, COAL FIRED	6280.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ESP	NSPS
		SO2	0.6260 LB/MMBTU	LIME SCRUBBING-77%	99.70 BACT
		NOX	0.6000 LB/MMBTU		99.00
		CO	0.0400 LB/MMBTU		NSPS
COAL AND ASH HANDLING					NSPS
		PM		WET SUPPRESSION AND DUST COLLECTORS	BACT

NOTES ----------
UP TO 40% SULFUR TO BE REMOVED BY COAL CLEANING PRIOR TO REACHING BOILER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2471.00 MMBTU/H

COMPANY NAME/SITE LOCATION PLAINS ELECT. GEN & TRANS PREWITT, NM
MCKINLEY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-82
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/27/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR, COAL-FIRED	2471.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		NSPS
				BAGHOUSE	99.90
		SO2	0.2000 LB/MMBTU		BACT
				FLUE GAS DESULFURIZATION	90.00
		CO	0.0630 LB/MMBTU		BACT
				FIRE BOX DESIGN & COM. CONTROL	
		NOX	0.4500 LB/MMBTU		BACT
				FIRE BOX DESIGN & COM. CONTROL	
		FLU*	0.0010 LB/MMBTU		BACT
COAL HANDLING		PM			
STOCKPILING AND STORAGE		PM			
LIMESTONE HANDLING		PM			
FUGITIVES		PM			

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 250.00 MW

COMPANY NAME/SITE LOCATION PLATTE RIVER PWR-RAWHIDE NEAR FORT COLLINS, CO
LARIMER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/22/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	250.00 MW				
		NOX	0.5000 LB/MMBTU	DESIGN	BACT 65.00
		PM	0.0300 LB/MMBTU	BAGHOUSE	BACT 99.70
		SO2	0.1300 LB/MMBTU	DRY SCRUBBER	BACT 80.00
COAL CONV	870.00 MT/YR				
		PM	0.5300 LB/H	BAGHOUSE	BACT 99.70
COAL CRUSHING	870.00 MT/YR				
		PM	0.4000 LB/H	BAGHOUSE	BACT 99.70
COAL STORAGE	870.00 MT/YR				
		PM	40.4000 LB/H	CRUSHING AGENT	BACT 80.00
COAL UNLOAD	870.00 MT/YR				
		PM	1.0500 LB/H	BAGHOUSE	BACT 99.70

(CONTINUED) PLATTE RIVER PWR-RAWHIDE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIME STORAGE	5.60 MT/YR				
		PM	0.0400 LB/H	BAGHOUSE	BACT 99.60
SILO(ASH)	57.70 MT/YR				
		PM	0.0100 LB/H	BAGHOUSE	BACT 99.70

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 121.40 MMBTU/H

COMPANY NAME/SITE LOCATION SAGINAW STEERING GEAR ATHENS, AL
LIMESTONE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AL 064
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/15/80
ESTIMATED DATE OF START-UP--
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	121.40 LB/MMBTU				
		PM	1.6000 LB/H	BAGHOUSE	BACT 99.70
		SO2	1.5000 LB/MMBTU	LOW S COAL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MW

COMPANY NAME/SITE LOCATION SALT RIVER PROJECT CORONADO STATION UNI* ST. JOHNS, AZ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) AZP76-1
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/10/78
ESTIMATED DATE OF START-UP--
(415)-974-8038 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN. UNIT	350.00 MW				
		PM	0.0820 LB/MMBTU	ESP	
		SO2	0.8000 LB/MMBTU	WET LIMESTONE SCRUBBER	64.00
		NOX	0.7000 LB/MMBTU		NSPS

NOTES ----------
COAL CONVEYING SYS WILL BE ENCLOSED AND DUST SUPPRESENT ADDED AT TRANSFER POINTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 890.00 MW

COMPANY NAME/SITE LOCATION SANDOW STEAM ELECT. STATION ROCKDALE, TX
MILAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-28
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/20/77
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE FIRED	890.00 MW					
		SO2	1.2000	LB/MMBTU		
			6827.0000	LB/H		
					FGD	70.00
		PM	0.1000	LB/MMBTU		
					ESP	99.80

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 530.50 MW

COMPANY NAME/SITE LOCATION SIERRA PACIFIC POWER CO. VALAMY, NV

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) NV 77-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/04/78
ESTIMATED DATE OF START-UP--
(415)-974-8066 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL FIRED, 2	277.00 MW				
		SO2	1.2000 LB/MMBTU		
		NOX	0.7000 LB/MMBTU		
		PM	0.1000 LB/MMBTU		
				BAGHOUSE	99.75

NOTES ----------
EMISSION LIMITS APPLY TO EACH UNIT SEPERATELY. BASIS DETERMINED BY NAPS AND PSD CLASS II INCREMENT CONSIDERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 235.00 MW

COMPANY NAME/SITE LOCATION SIKESTON BOARD OF MUNICIPAL UTILITIES SIKESTON, MO
SCOTT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/14/77
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, STEAM GEN, COAL FIRED	235.00 MW				
		SO2	1.2000 LB/MMBTU	WET LIMESTONE SCRUBBER	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 567.00 MW, 2 EA

COMPANY NAME/SITE LOCATION SOUTHWESTERN PUBLIC SERVICE SUDAN, TX

LAMB COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-50
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM TURBINE, COAL-FIRED	567.00 MW				
		SO2	508.8000 LB/H		
			1.2000 LB/MMBTU		
				LOW SULFUR FUEL	
		PM	0.1000 LB/MMBTU		
				FABRIC FILTER	98.60
				SPRINKLE ROADS WITH WATER OR CHEM.	

NOTES ----------
TWO UNITS, 567 MW EACH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION SOYLAND POWER COOP. FLORENCE, IL
PIKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 82 02 0030
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/23/82
ESTIMATED DATE OF START-UP--
(217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	450.00 MW				
		PM	0.0300 LB/MMBTU		NSPS
			90.0000 % REMOVAL	ESP	99.70
		SO2	1.2000 LB/MMBTU		NSPS
			90.0000 % REMOVAL	LIMESTONE SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU		NSPS
MISC. FUGITIVE SOURCES		PM		ROUTINE CONTROL MEASURES	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 348.00 MW (GROSS)

COMPANY NAME/SITE LOCATION SUNFLOWER ELECT. COOP., INC. - HAYS, KS. NEAR HOLCOMB, KA, KS
HOLCOMB STATION FINNEY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/19/80
DETERMINATION MADE BY EPA REGION VII DANIEL RODRIGUEZ ESTIMATED DATE OF START-UP--
(AGENCY) (AGENCY CONTACT PERSON) (816)-374-6525
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED	3389.00 MMBTU/H				
		NOX	0.6000 LB/MMBTU		
				STAGED COMBUST., LEA	BACT
		SO2	0.4800 LB/MMBTU 30D ROLL AV		
				LIME BASED DRY SCRUBBER	BACT
				LIME BASED DRY SCRUBBER	80.00
		CO	0.0640 LB/MMBTU 30D ROLL AV		
		PM	0.0300 LB/MMBTU		BACT
				FABRIC FILTER	BACT

NOTES ----------
THE NOX LIMIT TAKES PRIORITY OVER THE CO LIMIT. IF NECESSARY THE CO LIMIT WILL BE ADJUSTED AFTER THE UNIT HAS BEEN PERFORMANCE TESTED. THE UNIT WILL BURN LOW S WYOMING COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1440.00 MW

COMPANY NAME/SITE LOCATION SW ELECT. POWER CANTON, TX VAN ZANDT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO (REGION FILE NO.) PSD-TX-130
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2 EA	6821.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS
		SO2	0.9000 LB/MMBTU	WET LIMESTONE FLUE GAS DESULFURIZATION	99.60 BACT
		NOX	0.6000 LB/MMBTU	LOW NOX BURNERS FLUE GAS RECIRCULATION	87.40 NSPS
		CO	0.1000 LB/MMBTU	LOW EXCESS AIR	BACT
COAL UNLOAD		PM	2.4000 LB/H	WET SUPPRESSION	
COAL TRANSFER		PM	2.4000 LB/H	ENCLOSED	
COAL STORAGE		PM	2.4000 LB/H	CHEMICAL STABILIZER	

(CONTINUED) SW ELECT. POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE UNLOAD					
		PM	0.2000 LB/H	WET SUPPRESSION	
LIMESTONE TRANSFER					
		PM	0.6000 LB/H	ENCLOSED	
LIMESTONE STORAGE					
		PM	0.2000 LB/H	CHEMICAL STABILIZER	

NOTES ----------
NOX LIMIT FOR BOILERS IS 30 DAY ROLLING AVERAGE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 MW EA

COMPANY NAME/SITE LOCATION SW ELECT. POWER
P.O. BOX 21106 NABORTION, LA 71156
DESOTO PARISH PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-117 DATE OF PERMIT ISSUANCE-- 09/01/81
DETERMINATION MADE BY EPA REGION VI JOHN BUNYAK ESTIMATED DATE OF START-UP--
(AGENCY) (AGENCY CONTACT PERSON) (214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	720.00 MW				
		SO2	1.2000 LB/MMBTU	FGD	NSPS
		NOX	0.6000 LB/MMBTU	LOW NOX BURNERS	76.00 NSPS
		PM	0.1000 LB/MMBTU	ESP	BACT
		CO	0.8000 LB/MMBTU	EFFICIENT COMBUSTION	99.80 BACT
BOILER, COAL FIRED	720.00 MW				
		SO2	0.6000 LB/MMBTU	FGD	NSPS
		NOX	0.6000 LB/MMBTU	LOW NOX BURNERS	89.50 NSPS
		PM	0.0300 LB/MMBTU	ESP	BACT
		CO	0.8000 LB/MMBTU	EFFICIENT OPERATION	99.80 BACT
COAL HANDLING		PM		SPRAY APPL. & DUST COLLECT.	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

NOTES ----------
UNIT 1 UNDER 40CFR PART 60 SUBPART D. UNIT 2 UNDER 40CFR PART 60 SUBPART DA. FUGITIVE DUST CONTROLLED BY WATER SPRAY DURING CONSTRUCTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 MW, 2 EA

COMPANY NAME/SITE LOCATION SW ELECT. POWER
2700 ONE MAIN PL. DALLAS, TX 75250

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE--
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED UNIT #1	6780.00 MMBTU/H				
		PM	203.0000 LB/H		
			0.0300 LB/MMBTU		
				ESP	99.90
		SO2	0.7200 LB/MMBTU		
			4882.0000 LB/H		
				DESULFURIZATION SYS.	90.00
		NOX	0.6000 LB/MMBTU		
			4068.0000 LB/H		
				BURNER DESIGN	
		CO	0.1300 LB/MMBTU		
			892.0000 LB/H		
				BURNER DESIGN	
BOILER, COAL FIRED UNIT #2	6780.00 MMBTU/H				
		PM	203.0000 LB/H		
			0.0300 LB/MMBTU		
				ESP	99.90
		SO2	0.7200 LB/MMBTU		
			4882.0000 LB/H		
				DESULFURIZATION SYS.	90.00
		NOX	0.6000 LB/MMBTU		
			4068.0000 LB/H		
				BURNER DESIGN	

CO	0.1300	LB/MMBTU
	892.0000	LB/H
		BURNER DESIGN

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 MW

COMPANY NAME/SITE LOCATION SW ELECT. POWER HALLSVILLE, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-64
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED STEAM GEN	720.00 MW				
		SO2	1.2000 LB/MMBTU		
			682.0000 LB/H		
				WET LIMESTONE FGD	76.00
		PM	0.1000 LB/MMBTU		
				ESP	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION S.C. PUBLIC SERVICE AUTHORITY
CROSS SITE
CROSS, SC
BERKELEY COUNTY

DETERMINATION IS BACT
PERMIT NO. P/C-08-190
DETERMINATION MADE BY SOUTH CAROLINA DHEC (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP--
(803)-758-5406 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
#3 GENERATOR	500.00 MW				
		PM	0.0300 LB/MMBTU		NSPS
				ESP	99.80
		SO2	0.4100 LB/MMBTU		BACT
				LOW S COAL	85.00
		NOX	0.6000 LB/MMBTU		B/N
				EQUIPMENT DESIGN & OPERATION	
		CO	0.0400 LB/MMBTU		BACT
				EQUIPMENT DESIGN & OPERATION	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MMBTU/H

COMPANY NAME/SITE LOCATION TACOMA CITY LIGHT TACOMA, WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X-82-06
DETERMINATION MADE BY EPA REGION X (AGENCY)
DAVID TETTA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/11/82
ESTIMATED DATE OF START-UP--
(206)-442-1597 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	1600.00 MMBTU/H				
		SO2	0.2300 LB/MMBTU		
			367.0000 LB/H		
		SO2	1366.0000 T/YR	DRY SCRUBBER	85.00
		NOX	0.5000 LB/MMBTU	DRY SCRUBBER	85.00
			786.0000 LB/H		
		NOX	2926.0000 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 425.00 MW

COMPANY NAME/SITE LOCATION TAMPA ELECT. CO.
P.O. BOX 111
RUSKIN, FL 33601
HILLSBOROUGH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-040
DETERMINATION MADE BY FLORIDA DER (AGENCY)
ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/15/81
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER GEN. UNIT	425.00 MW				
		PM	0.0300 LB/MMBTU		NSPS
			130.0000 LB/H		
				ESP	99.00
		SO2	0.8200 LB/MMBTU		NSPS
			3576.0000 LB/H		
				LIMESTONE SCRUBBER	90.00
				COAL WASHING	
		NOX	0.6000 LB/MMBTU		BACT
			2598.0000 LB/H		
				EQUIPMENT DESIGN & OPERATION	
		CO	0.0140 LB/MMBTU		BACT
			61.0000 LB/H		
				EQUIPMENT DESIGN & OPERATION	

NOTES ----------
BIG BEND STATION UNIT #4.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MW

COMPANY NAME/SITE LOCATION TUCSON ELECT. POWER CO. UNIT #3 SPRINGERVILLE, AZ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AZP 79-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/11/80
ESTIMATED DATE OF START-UP--
(415)-974-8066 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED GEN. UNITS	350.00 MW				
		SOX	0.2180 LB/MMBTU		
			817.0000 LB/H		
				DRY LIMESTONE SCRUBBER	85.00
		NOX	0.4400 LB/MMBTU		
				COMBUSTION MODIFICATIONS	
		PM	0.0260 LB/MMBTU		
				BAGHOUSE	99.96

NOTES ----------
PSD INCREMENT COMPLIANCE AND NSPS USED IN THE DETERMINATION OF BACT EMISSION LIMITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 700.00 MW

COMPANY NAME/SITE LOCATION TUCSON ELECT. POWER CO. UNITS #1 & 2 TUCSON, AZ

APACHE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AZ77-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/21/77
ESTIMATED DATE OF START-UP--
(415)-974-8066 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED GEN. UNITS, 2	350.00 MW EA				
		PM	0.0340 LB/MMBTU	HOT SIDE ESP	BACT
		SO2	0.6900 LB/MMBTU	WET LIME SCRUBBER	BACT 64.00
		NOX	0.6970 LB/MMBTU		NSPS
COAL HANDLING		PM			
BOTTOM ASH				SPRAY APPLIC. & DUST COLLECT	
		PM			
FLY ASH				HYDRALIC CONVEYANCE	
		PM			
				PNEUMATIC CONVEYANCE	

NOTES ----------
DETAILED CONTROL STRATIGIES FOR THESE FACILITIES IS GIVEN IN PERMIT. WET SUPPRESSION SHALL BE USED TO CONTROL FUGITIVE DUST DU RING CONSTRUCTION. SAMPLING OF COAL IS REQUIRED. THIS DEGREE OF CONTROL WAS PROPOSED BY THE CO. IN ITS A PPLICATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 200.00 MMBTU/H

COMPANY NAME/SITE LOCATION TVA - AFBC PILOT PLANT - SHAWNEE STEAM * PADACAH, KY 42001
AFBC PILOT PLANT MCCRACKEN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-18
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/14/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUIDIZE BED BOILER	200.00 MMBTU/H				
		SO2	1.2000 LB/MMBTU	FLUIDIZIED BED COMBUSTION	BACT 85.00
		PM	0.1000 LB/MMBTU	BAGHOUSE	BACT 99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 230.00 MW

COMPANY NAME/SITE LOCATION TVA - PARADISE - DRAKESBORO , KY
720 EDRCO BLDG. MUHLENBURG COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-79-47
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/25/79
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CRUSHING PLANT	2000.00 T/H	PM		
COAL WASHING PLANT	2000.00 T/H COAL	PM	325.2000 T/YR ALLOWABLE	LAER
			136.5000 T/YR ACTUAL	
			BAGHOUSE	98.00
			ROTARY CAR DUMP	

NOTES ----------
THIS IS A NON ATTAINMENT AREA - DETERMINATION STATES - "SINCE TVA IS WILLING TO ACCEPT AN ALLOWABLE ... OF LESS THAN 50 TPY ..
. NO FURTHER ANALYSIS UNDER OFFSET POLICY ISREQUIRED."
ALSO COVERS PERMIT NUMBER C-81-073. THIS ADDITIONAL PERMIT IS LAER. ROTARY CAR DUMP 93% EFF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MW

COMPANY NAME/SITE LOCATION UTAH PWR & LT CO-HUNTER STATION
NEAR CASTLE DALE , UT
EMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/02/80
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACTIVE STORAGE					
ASH SILO UNLD		PM	2.0000 LB/H	SPRAY & ENC.	BACT 90.00
		VE	20.0000 % OPACITY		
ASH SILO VENTS		VE	20.0000 % OPACITY	KEPT DAMP	BACT 100.00
BOILERS(3&4)	860.00 MW	PM	49.0000 LB/H	FF	BACT 99.80
		VE	20.0000 % OPACITY		
		NOX	0.5500 LB/MMBTU	BOILER DESIGN	BACT 65.00
		PM	0.0300 LB/MMBTU	FF	BACT 90.00
		SO2	0.1200 LB/MMBTU	SCRUBBER	BACT 90.00
		VE	20.0000 % OPACITY		

(CONTINUED) UTAH PWR & LT CO-HUNTER STATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONV	2.50 MMT/YR				
		PM	5.0000 LB/H	ENC.	BACT 90.00
HAUL ROADS		VE	20.0000 % OPACITY		
		PM	2.7000 LB/H	ASPHALT + H2O	BACT 90.00
INACT STORAGE					
		PM	40.0000 LB/H	SEAL. & COMP.	BACT 90.00
LIME T/S		VE	20.0000 % OPACITY		
		VE	20.0000 % OPACITY	FF	BACT 99.80
SLUDGE MIX(ASH)					
		VE	20.0000 % OPACITY	FF	BACT 99.80
TRANS	2.50 MMT/YR				
		PM	1.0000 LB/H	SPRAYS & ENC.	BACT 98.50
TRUCK UNLD	2.50 MMT/YR	VE	20.0000 % OPACITY		
		PM	0.1000 LB/H	SPRAYS & ENC.	BACT 98.50
		VE	20.0000 % OPACITY		

NOTES ----------
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR SOX, NOX, OPACITY WILL BE DETERMINED BY CEM REPO
RTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 70400.00 T/YR

COMPANY NAME/SITE LOCATION U.S. DOE, 4 - COAL PILOT PLANT , KY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C79121
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/17/79
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	62.60 MMBTU/H				
		PM	2.0000 LB/H		
			10.0000 T/YR		
		CO	1.0000 T/YR		
		SO2	3.0000 T/YR		
		NO2	6.0000 T/YR		
		VOC	1.0000 T/YR		
REACTOR HEATERS, 201A & B, TOTAL	53.00 MMBTU/H				
		PM	1.0000 LB/H		
			5.0000 T/YR		
REACTOR HEATER #201C	48.40 MMBTU/H				
		PM	1.0000 LB/H		
			5.0000 T/YR		
		CO	2.0000 T/YR		
		SO2	1.0000 T/YR		
		NO2	9.0000 T/YR		
		VOC	1.0000 T/YR		
FILTRATE HEATERS	22.90 MMBTU/H				
		PM	1.0000 LB/H		
			5.0000 T/YR		
		NO2	3.0000 T/YR		
		VOC	2.0000 T/YR		

(CONTINUED) U.S. DOE, 4 - COAL PILOT PLANT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HYDROGEN HEATER	16.40 MMBTU/H			
		PM	0.8000 LB/H	
			3.5000 T/YR	
		CO	3.0000 T/YR	
		SO2	1.0000 T/YR	
		NO2	2.0000 T/YR	
		VOC	1.0000 T/YR	
THERMOLIQUID HEATER	36.80 MMBTU/H			
		PM	0.6000 LB/H	
			2.6300 T/YR	
		CO	2.0000 T/YR	
		SO2	12.0000 T/YR	
		NO2	8.0000 T/YR	
		VOC	1.0000 T/YR	
DEASHING UNIT HTRS, #501 & 502	19.80 MMBTU/H			
		PM	0.4000 LB/H	
			1.7500 T/YR	
		CO	1.0000 T/YR	
		SO2	9.0000 T/YR	
		NO2	6.0000 T/YR	
		VOC	1.0000 T/YR	
COAL UNLOADING	300.00 T/H			
		PM	9.0000 LB/H	
			3.7500 T/YR	
			FABRIC FILTER	99.00
COAL RECLAIM	208.00 T/H			
		PM	5.2000 LB/H	
			4.0000 T/YR	
			FABRIC FILTER	99.00
CRUSHED COAL BIN	208.00 T/H			
		PM	4.0000 T/YR	
			FABRIC FILTER	99.00

(CONTINUED) U.S. DOE, 4 - COAL PILOT PLANT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL DRYING	208.00 T.H			
		PM	0.6000 LB/H	
			2.1000 T/YR	
			FABRIC FILTER	99.00
COAL STORAGE	208.00 T/H			
		PM	1.0000 T/YR	
			FABRIC FILTER	99.00
FLAKER	208.00 T/YR			
		PM	0.2100 LB/H	
			0.9400 T/YR	
			FABRIC FILTER	99.00
OIL MIST ELIMINATOR				
		PM	8.1500 LB/H	
			35.7000 T/YR	
			MIST ELIMINATOR	99.00
FLARE				
		PM	1.0000 T/YR	
		SO2	1.0000 T/YR	
NAPTHA TANKS, 3				
		VOC	1.0000 T/YR	
RESID. OIL TANKS				
		VOC	1.0000 T/YR	
DIST. FUEL TANKS				
		VOC	1.0000 T/YR	
COAL HYD. REACTOR				
		SO2	90.0000 T/YR	
			PROCESS GAS RECOVERY	99.90

NOTES ----------
NON-ATTAINMENT FOR PM, SO2, NOX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2080.00 MW

COMPANY NAME/SITE LOCATION WASHINGTON WATER POWER CO. , WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X-83-01
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/17/82
ESTIMATED DATE OF START-UP-- 1984
(206)-442-1567 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CGS BOILER		SO2	0.2200 LB/MMBTU 30D ROLL AV		
			1140.0000 LB/H, 24 H ROLL AVG		
		NOX	0.5000 LB/MMBTU SB. COAL		
			0.6000 LB/MMBTU, BIT. COAL		
			LIMITS ARE 30 DAY ROLLIN AVG		
		PM	0.0300 LB/MMBTU		
		VE	20.0000 % OPACITY		
		CO	332.0000 LB/H		
		VOC	3.3200 LB/H		
		PB	0.2700 LB/H ANNUAL AV		
		BE	0.0200 LB/H ANNUAL AV		
		HG	0.0300 LB/H ANNUAL AV		
		FLU*	1.1500 LB/H ANNUAL AV		
		SUL*	80.9000 LB/H ANNUAL AV		
ROTARY CAR DUMPER (COAL)		PM	0.0100 GR/DSCF	BAGHOUSE	90.00
		VE	5.0000 % OPACITY		
ROTARY CAR DUMPER (LIMESTONE)		PM	0.0100 GR/DSCF	BAGHOUSE	90.00
		VE	5.0000 % OPACITY		

(CONTINUED) WASHINGTON WATER POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONVEYORS					
		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
COAL CONVEYOR DISCHARGE					
		PM		TELESCOPIC CHUTES/LOWERING WELL	75.00
		VE	20.0000 % OPACITY		
COAL CONVEYOR TRIPPERS					
		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
TRANSFER HOUSES					
		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
COAL SUPPLY SYSTEM					
		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
COAL SILOS					
		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
LIMESTONE SILOS					
		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
BOTTOM ASH DISPOSAL					
		PM		FIXATED W/SCRUBBER SLUDGE	100.00

(CONTINUED) WASHINGTON WATER POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROAD DUST					
		PM		CHEM. STABILIZ.,DESIGN & OPER. PRACT.	85.00
FLY ASH HANDLING & SILOS		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
WASTE TREATMENT BLDG.		PM	0.0100 GR/DSCF	BAGHOUSE	99.00
		VE	5.0000 % OPACITY		
DEAD STORAGE		PM	20.0000 GR/DSCF	SURFACE STABILIZATION	
		VE	95.0000 % OPACITY		

NOTES ----------
THE PROPOSED CONTROL SYSTEM CONSISTS OF A LIMESTONE FGD SYSTEM FOR SO2 REMOVAL PRECEEDED BY A BAGHOUSE (OR POSSIBLY AN ESP) FO R PARTICULATE REMOVAL. THE APPLICABLE TRACE MATERIALS WILL ALSO BE REMOVED TO SOME EXTENT BY THE PARTICULATE AND SO2 CONTROL SYSTEMS. NOX,CO,VOC ARE MINIMIZED BY COMBUSTION CONTROL (IE. EXCESS AIR CONTROL, ETC.). AMO UNTS SITED ARE EMISSIONS PER UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 640.00 MW (NET)

COMPANY NAME/SITE LOCATION WEST TEXAS UTILITIES CO. OKLAUNION, TX

WILBERGER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9015
DETERMINATION MADE BY TEXAS ACB (AGENCY) JAMES CROCKER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/20/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR	6.80 MMBTU/H				
		PM	0.0300 LB/MMBTU	ESP	NSPS 99.70
		SO2	0.5000 LB/MMBTU	WET LIMESTONE SCRUBBER	NSPS 70.00
		NOX	0.5000 LB/MMBTU	LOW NOX BURNERS	
COAL & LIMESTONE STORAGE/HANDLI*					
		PM	60.0000 LB/H	DUST CONTROL SYSTEM	

NOTES ----------
THIS IS A COAL FIRED BOILER BURNING LOW SULFUR COAL (.64% S WORST CASE).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1160.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN ELEC. POWER CO., PLEASANT PRA* , WI
KENOSHA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-76-A-1
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/09/76
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	580.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
				ESP	99.00
		SO2	1.2000 LB/MMBTU COAL		NSPS
			0.8000 LB/MMBTU, OIL		
				LOW S FUEL -- <0.7% COAL, <0.5% OIL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 400.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN POWER & LIGHT CO., EDGEWATER * SHEBOYGAN, WI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-3
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/26/77
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	400.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 321.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN PUBLIC SERVICE CORP., WESTON * , WI
MARATHON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-4
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/11/77
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	321.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 98.00 MMBTU/H

COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC. WILLIAMSBURG, VA JAMES CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 79VA15
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON) (215)-597-2711 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/16/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	98.00 MMBTU/H	SO2	1.0700 LB/MMBTU	1% SULFUR IN OIL.	BACT
		PM		TSP NOT SIGNIFICANT	

NOTES ----------
INSTALLATION OF A BACKUP BOILER. NO ADVERSE AIR QUALITY IMPACT -- NET IMPROVEMENT DUE TO NEW UNIT. EXISTING UNITS USE 2.5% S. OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 37.50 MMBTU/H

COMPANY NAME/SITE LOCATION A.I. DUPONT INSTITUTE WILMINGTON, DE
NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) 79-DE-01
DETERMINATION MADE BY EPA REGION III (AGENCY) JOANNE MCKERNAN (AGENCY CONTACT PERSON) (215)-597-8182 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/18/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS (3)	37.50 MMBTU/H				
		PM	0.5800 LB/H		BACT
		SO2	66.7000 LB/H	.85% S. IN FUEL OIL	BACT
		CO	2.5000 LB/H		BACT
		VOC	0.5000 LB/H		BACT
		NOX	30.0000 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 243.00 MMBTU/H

COMPANY NAME/SITE LOCATION CRANSTON PRINT WORKS FLETCHER, NC

HENDERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NC-030
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/25/80
ESTIMATED DATE OF START-UP--
(919)-733-6126 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	243.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	MULTICYCLONE + VENTURI SCRUBBER	BACT 98.80
		SO2	1.2000 LB/MMBTU	CAUSTIC WASTE VENTURI SCRUB.	BACT 74.00
		NOX	0.7000 LB/MMBTU	EQUIPMENT OPERATION & DESIGN	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 96.40 MMBTU/H

COMPANY NAME/SITE LOCATION FIRESTONE TIRE CO.
3300 SYLVESTER RD
ALBANY, GA 31702
DOUGHERTY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. GA 067
DETERMINATION MADE BY GEORGIA EPD (AGENCY) BILL MITCHELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/25/80
ESTIMATED DATE OF START-UP--
(404)-656-6900 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, OIL FUEL	96.40 MMBTU/H	SO2		1% SULFUR FUEL OIL	
		PM	0.1600 LB/MMBTU	BAGHOUSE	BACT 99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL — 81.90 MBTU/H

COMPANY NAME/SITE LOCATION HOOKER CHEMICAL & PLASTICS CORP. P.O. BOX D — PERRYVILLE, MD 21903 — CECIL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 78MD07
DETERMINATION MADE BY EPA REGION III (AGENCY) — BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/03/79
ESTIMATED DATE OF START-UP-- 1980
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OIL FIRED BOILER	81.90 MMBTU/H	SO2	355.1000 LB/H	S IN FUEL LIM. TO 1.3% BY WT	BACT

NOTES ----------
355.1 LB/H, 3 BOILERS (2 EXISTING & 1 NEW) WITH COMMON STACK

SOURCE HAS CLOSED INDEFINITELY DUE TO MARKET CONDITIONS. PLANT HAS BEEN MOTHBALLED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 185.00 MMBTU/H EA

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER , TX 77001
MATAGORDA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-209
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/16/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2 EA	185.00 MMBTU/H				
		SO2	0.5000 LB/MMBTU		BACT
			92.1000 LB/H		
				LOW SULFUR #2 FUEL OIL	
		PM	0.1000 LB/MMBTU		BACT
			18.3500 LB/H		
				FGD	
				O2 CONTROL	
		NOX	0.3000 LB/MMBTU		BACT
			55.0000 LB/H		
				LOW NOX BURNER	
				LEA FIRING	

NOTES ----------
NO. 2 FUEL OIL -- < 0.5% SULFUR BY WT. CONTINUOUS OPERATION -- 8760 HR/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION ILLINOIS POWER CO. HENNEPIN, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-79-22
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/26/79
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, OIL FIRED COMBUSTION		SO2		LIMITED TO 0.8% S FUEL OIL	
		NOX	75.0000 PPM		

NOTES ----------
TURBINE RESTRICTED TO 4000 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION ILLINOIS POWER CO. CLINTON, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-79-21
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/03/79
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, OIL FIRED COMBUSTION		SO2		LIMITED TO 0.8% S FUEL OIL	
		NOX	75.0000 PPM		

NOTES ----------
TURBINE IS RESTRICTED TO 1500 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION NORTHERN INDIANA PUBLIC SERVICE CO., SC* , IN
JASPER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-79-A-25
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/16/79
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR, OIL FIRED, 2					
		SO2		LIMITED TO 0.8% S FUEL OIL	
		NOX	75.0000 PPM		

NOTES ----------
EACH TURBINE RESTRICTED TO 2000 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 175.00 MLB/H

COMPANY NAME/SITE LOCATION CONSUMERS POWER CO. MIDLAND, MI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 99-81
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/01/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, NAT. GAS, 3 EA	175.00 MLB/H	NOX	0.2000 LB/MMBTU	BURNER DESIGN & EX. AIR CNTRL	

NOTES ----------
3 NATURAL GAS-FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 2000.00 HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS ENTERPRISE, MS CLARKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-MS-036
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY)
DWIGHT WILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/21/81
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, NAT. GAS	14000.00 CF/H N. G.	NOX	37.4000 LB/H 163.9000 T/YR	BOILER DESIGN & OPERATION	NSPS
		CO	10.5000 LB/H 46.2000 T/YR	BOILER OPERATION & DESIGN	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 170.00 MMBTU/H

COMPANY NAME/SITE LOCATION CAROLINA FOREST INDUSTRIES, INC. BENNETTSVILLE, SC MARLBORO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-SC-039
DETERMINATION MADE BY SOUTH CAROLINA DHEC (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/25/81
ESTIMATED DATE OF START-UP--
(803)-758-5406 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, BARK/WOODWASTE	172.00 MMBTU/H	PM	0.2500 LB/MMBTU 43.0000 LB/H	MECHANICAL COLLECTOR/ESP	BACT 98.00
		NOX	1.1900 LB/MMBTU 205.0000 LB/H	EQUIPMENT OPERATION & DESIGN	BACT
BOILERS, COAL FIRED, 2	311.00 MMBTU/H EA	PM	62.2000 LB/H 271.8000 T/YR	ESP	BACT 99.00
		SO2	746.4000 LB/H 3260.4000 T/YR	LOW S COAL	BACT
		NOX	435.4000 LB/H 1901.8000 T/YR	BOILER DESIGN	BACT
		CO	25.6000 LB/H 111.8000 T/YR	EQUIPMENT OPERATION	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

THREE UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE

COMPANY NAME/SITE LOCATION CO-GEN COEUR D'ALENE, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY IDAHO AQB (AGENCY) CLINT AYER (AGENCY CONTACT PERSON) (208)-334-5360 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/15/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOOD FIRED	104.00 MMBTU/H				
		PM	3.9500 LB/H	MULTICLONE & BAGHOUSE	98.40
		CO	5.9000 LB/H		
		NOX	19.0000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 6.00 MW

COMPANY NAME/SITE LOCATION CO-GEN., INC. COEUR D'ALENE, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-16
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/15/83
ESTIMATED DATE OF START-UP-- 1983
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	6.00 MW				
		PM	0.0340 LB/MMBTU		
			16.6000 T/YR		
				ESP	99.00
		NOX	0.1700 LB/MMBTU		BACT
			88.2000 T/YR		
		CO	0.2200 LB/MMBTU		BACT
			117.6000 T/YR		
		VOC	0.0800 LB/MMBTU		BACT
			117.6000 T/YR		

NOTES ----------
GENERAL DESIGN CONTRIBUTES TO REDUCTION OF OIL POLLUTANTS AND INCLUDES 1) INCREASED BOILER HEIGHT FOR BETTER EFFICIENCY, 2) OV
ERFIRE AND UNDERFIRE AIR, 3) FEEDWATER HEATERS TO INCREASE EFFICIENCY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE

COMPANY NAME/SITE LOCATION EVERGREEN FOREST PRODUCTS

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY IDAHO AQB (AGENCY) CLINT AYER (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMIT	CONTROL EQUIPMENT OR PROCESS MODIFICATION	% RMEM
BOILER, WOOD FIRED	88.00 MMBTU/H				
		PM	21.2200 LB/H		
				2 STAGED MULTICLONES	96.00
		CO	17.5600 LB/H SEE NOTE		
		NOX	17.5600 LB/H SEE NOTE		

NOTES ----------
NOTE - CO & NOX PREDICTIONS BASED ON AP-42.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 95.00 MMBTU/H

COMPANY NAME/SITE LOCATION GOLD KIST INC., GOLD KIST SOY PLANT VALDOSTA, GA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 2075-092-8088-C
DETERMINATION MADE BY GEORGIA EPD (AGENCY) SUE MCFATHER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/09/81
ESTIMATED DATE OF START-UP-- 1982
(404)-656-4867 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WELLON TYPE A BOILER	95.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	2 STAGE MECHANICAL COLL./FAB. FILTER	NSPS 98.00
		NOX	0.7000 LB/MMBTU	BURNER & FURNACE DESIGN/GOOD OPER.	NSPS
		VOC		EFF. BOILER DESIGN & GOOD OPER.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 150.00 MMBTU/H

COMPANY NAME/SITE LOCATION HUDSON LUMBER CO. ANDERSON, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 81-PO-17
DETERMINATION MADE BY SHASTA COUNTY APCD (AGENCY) RICHARD BOOTH (AGENCY CONTACT PERSON) (916)-246-5674 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/05/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	90000.00 LB/H STEAM				
		PM	0.0350 GR/DSCF	MULTICLONE & VENTURI SCRUBBER	98.00
		NOX	30.0000 LB/H, 8 H AVG	COMBUSTION PARAMETER CONTROL	40.00
		SOX			
		CO	2.0000 LB/T FUEL	COMBUSTION PARAMETER CONTROL	98.00
		VOC		COMBUSTION PARAMETER CONTROL	76.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 50.00 MW

COMPANY NAME/SITE LOCATION MCNEIL GENERATING STATION
BURLINGTON ELECTRIC LIGHT DEP* BURLINGTON, VT

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY VERMONT AEC (AGENCY) HAROLD GARABEDIAN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/01/80
ESTIMATED DATE OF START-UP-- 1984
(802)-828-3395 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WOOD FIRED FURNACE	670.00 MMBTU/H	PM	0.0070 LB/MMBTU 0.0070 GR/DSCF AT 12% CO2 MEC. DUST COLLECTOR & ESP 80%-MEC COLLECT. & 99.5%-ESP	99.90

NOTES ----------
418000 ACFM AT 310F-CYCLONES-LARGE DIA. CERAMIC-24 TUBE, 58 IN. DIAMETER, 12.3 FT LONG, DELTA P=3.4 IN. H2O, INLET VEL. 63.1FT /SEC-ESP-WEIGHTED WIRE TYPE ,TOTAL PLATE AREA 280000 SQ. FT.,SCA=672 SQ. FT./1000 ACFM, LINEAR VEL. 3 FT/SEC - 9 FIELDS, 119 GAS PASSAGES, 9 IN. PASSAGE SPACING, 45 FT GAS TRAVEL DISTANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 37.00 MW

COMPANY NAME/SITE LOCATION PANORAMA ENERCORP, INC KETTLE FALLS, WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-15
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	37.00 MW				
		PM	0.0070 GR/DSCF 12% CO2	ESP	99.00
		CO	107.3000 LB/H		BACT
		VOC	36.5000 LB/H		
		NOX	0.1700 LB/MMBTU		BACT

NOTES ----------
GENERAL DESIGN CONTRIBUTES TO REDUCTION OF ALL POLLUTANTS AND INCLUDES 1) INCREASED BOILER HEIGHT FOR BETTER EFFICIENCY, 2) OV
ERFIRE AND UNDERFIRE AIR, 3) FEEDWATER HEATERS TO INCREASE EFFICIENCY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 145.00 MMBTU/H

COMPANY NAME/SITE LOCATION ULTRASYSTEMS INC. BURNEY, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 82-PO-32
DETERMINATION MADE BY SHASTA COUNTY APCD (AGENCY) RICHARD BOOTH (AGENCY CONTACT PERSON) (916)-246-5674 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/06/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	150000.00 LB/H STEAM				
		PM	0.0350 GR/DSCF	MULTICLONE & VENTURI SCRUBBER	98.00
		NOX	139.0000 T/YR	COMBUSTION PARAMETER CONTROL	40.00
		CO	126.0000 T/YR	COMBUSTION PARAMETER CONTROL	98.00
		VOC	55.0000 T/YR	COMBUSTION PARAMETER CONTROL	76.00
		SOX	21.0000 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 1440.00 T/D WOOD & WASTE

COMPANY NAME/SITE LOCATION WATSON ENERGY SYS, INC. WILMINGTON, CA

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) LA 77-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) BOB BAKER (AGENCY CONTACT PERSON) (415)-974-8220 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/03/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN. UNITS, 4, WASTE/FUEL*	1440.00 T/D				
		NOX	83.0000 LB/H		LAER
				COMBUSTION MODIFICATION	
		SO2	64.0000 LB/H		LAER
				WET SCRUBBER (CAUSTIC)	90.00
		PM	4.0000 LB/H		LAER
				BAGHOUSE	99.50

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION WESTERN KRAFT
P.O. BOX 130 HAWESVILLE, KY 42348
HANCOCK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. KY-146
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/02/80
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOODWASTE	450.00 MMBTU/H				
		PM	0.0400 LB/MMBTU	VENTURI SCRUBBER	BACT 99.30
		SO2	0.3150 LB/MMBTU		BACT
		NOX	0.4000 LB/MMBTU	BOILER DESIGN	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 65.00 MW

COMPANY NAME/SITE LOCATION AMES MUNICIPAL POWER PLANT AMES, IA
STORY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/05/79
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, UNIT #8, STEAM GEN.	769.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	HOT SIDE ESP'S	BACT 99.60
		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	BACT

NOTES ----------
UPON STARTUP OF UNIT 8, SO2 EMISSIONS FROM EXISTING UNITS 5,6, AND 7 WILL BE REDUCED FROM PRE-MODIFICATION EMISSION LEVELS BEC AUSE OF A PROJECTED VIOLATION OF THE 24HR SO2/NAAQS. SEE IOWA CONSENT ORDER 79-A-007. THE STACKS ON TWO EXISTING UNITS AND ON PROPOSED UNIT 8 ARE LESS THAN GEP STACK HEIGHT. UNIT #8 WILL BE CAPABLE OF BURNING UP TO 30% REFUSE-DERIVED FUEL. TWO E SP'S WILL BE INSTALLED, STACKED ONE ON TOP OF THE OTHER BECAUSE OF SPACE LIMITATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 90.00 MW

COMPANY NAME/SITE LOCATION CITY OF COLUMBUS COLUMBUS, OH
FRANKLIN COUNTY

DETERMINATION IS B/L FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-3
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/16/79
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, REFUSE/COAL FIRED, 6 EA	240.00 MMBTU/H			
		PM	0.1000 LB/MMBTU	
		SO2	0.9300 LB/MMBTU 6 BOILERS OPER.	
			1.4400 LB/MMBTU,<4 BOILERS OPER.	
		NOX	0.5000 LB/MMBTU	
			0.7000 LB/MNBTU, COAL ONLY	

NOTES ----------
REFUSE MUST COMPRISE AT LEAST 50% OF THE TOTAL HEAT INPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 205.68 MMBTU/H

COMPANY NAME/SITE LOCATION DEGUSSA CHEM CORP.
THEODORE INDUSTRIAL PARK
THEODORE, AL
MOBILE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AL 072
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) (205)-834-6570 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/07/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEAT BOILER, FUEL OIL, NATURAL *	205.68 MMBTU/H				
		SO2	1.2000 LB/MMBTU	LOW SULFUR FUEL OIL #6 OR #2	BACT
		PM	0.1000 LB/MMBTU	NATURAL GAS & OIL	BACT
		NOX	0.4000 LB/MMBTU	BOILER DESIGN & OPERATION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS

COMPANY NAME/SITE LOCATION FERRO CHEMICAL DIV OF FERRO CORP. BEDFORD, OH 44146

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 13-956
DETERMINATION MADE BY CLEVELAND DAPC (AGENCY) IKRAM HABIB (AGENCY CONTACT PERSON) (216)-664-3508 (PHONE)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	3.12 MMBTU/H	PM	0.1690 LB/H 0.0540 LB/MMBTU	WET SCRUBBER	95.00

NOTES ----------
SCRUBBER NEED ONLY BE OPERATED DURING COMBUSTION OF WASTE SOLVENT FUELS. SCRUBBER OPERATION NOT REQUIRED FOR NO.2 OIL OR NATUR
AL GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 3600.00 MMBTU/H

COMPANY NAME/SITE LOCATION FLORIDA POWER & LIGHT
BARWICK ROAD
SANFORD, FL 32771
VOLUSIA COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. FL-047
DETERMINATION MADE BY FLORIDA DER (AGENCY) ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/20/80
ESTIMATED DATE OF START-UP-- 1980
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL PULVERIZERS	96000.00 LB/H				
		PM	7.7000 LB/H		NSPS
			11.0900 T/YR		
				BAGHOUSE	99.96

NOTES ----------
TEST FACILITY - 50/50 COAL/OIL FIRED UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 691.00 MMBTU/H

COMPANY NAME/SITE LOCATION GILMAN PAPER CO.
MILL AT ST. MARYS ST. MARYS, GA 31558
CAMDEN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. GA-071
DETERMINATION MADE BY GEORGIA EPD (AGENCY) BILL MITCHELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/29/81
ESTIMATED DATE OF START-UP--
(404)-656-6900 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL/WOODWASTE	587.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	ESP	BACT
		SO2	1.2000 LB/MMBTU	WET SCRUBBER	90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 4457.00 MMBTU/H

COMPANY NAME/SITE LOCATION GULF STATES UTILITY WEST LAKE, LA
CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-305
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/24/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	1390.00 MMBTU/H				
		NOX	0.2700 LB/MMBTU OIL		NSPS
			0.2700 LB/MMBTU GAS		
				STEAM INJECTION	60.00
		CO	0.1300 LB/MMBTU OIL		BACT
			0.0900 LB/MMBTU GAS		
				EFFICIENT COMBUSTION	
		SO2	0.6800 LB/MMBTU OIL		BACT
			0.0010 LB/MMBTU GAS		
				LOW SULFUR FUEL (.7%)	
		PM	0.2100 LB/MMBTU OIL		BACT
			0.0010 LB/MMBTU GAS		
				EFFICIENT COMBUSTION (.5% ASH)	
COAL GASIFIER	75.34 T/H COAL				
		NOX	0.0300 LB/T		BACT
				EXISTING INTERNAL CONTROLS	
		CO	0.6900 LB/T		BACT
				EXISTING INTERNAL CONTROLS	
		SO2	0.1000 LB/T		BACT
				EXISTING INTERNAL CONTROLS	
		PM	0.0300 LB/T		BACT
				EXISTING INTERNAL CONTROLS	

(CONTINUED) GULF STATES UTILITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	1706.00 MMBTU/H				
		NOX	0.1900 LB/MMBTU	COAL GAS	BACT
			0.3000 LB/MMBTU	OIL	
				LOW BTU COAL GAS AS FUEL	56.00
		CO	0.0080 LB/MMBTU	COAL GAS	BACT
			0.0300 LB/MMBTU	OIL	
				LOW BTU COAL GAS AS FUEL	
		SO2	0.6200 LB/MMBTU	COAL GAS	BACT
			0.6600 LB/MMBTU	OIL	
				LOW BTU COAL GAS AS FUEL	
		PM	0.0300 LB/MMBTU	COAL GAS	BACT
			0.0100 LB/MMBTU	OIL	
				LOW BTU COAL GAS AS FUEL	
COAL GASIFIER	53.65 T/H COAL				
		NOX	0.0100 LB/T		BACT
				RECYCLE PROCESS GAS	
		CO	0.0100 LB/T		BACT
				EFFICIENT COMBUSTION	
		SO2	0.1900 LB/T		BACT
				TAIL GAS FLARE	
		PM	0.0100 LB/T		BACT
				NONE	
TURBINE	1361.00 MMBTU/H				
		NOX	0.2500 LB/MMBTU		NSPS
				STEAM INJECTION	
		CO	0.0900 LB/MMBTU		BACT
				EFFICIENT COMBUSTION	
		SO2	0.2100 LB/MMBTU		BACT
				LOW SULFUR FUEL (.7%)	
		PM	0.0010 LB/MMBTU		BACT
				COAL GAS SLOW ASH FUEL (.5%)	
COAL DELIVERY					
		PM	0.0800 LB/H		BACT
				WETTING	

(CONTINUED) GULF STATES UTILITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... $ BASIS ... PCT EFF
CRUSHING/SCREENING					
		PM	0.1400 LB/H	BAGHOUSE	BACT
PULVERIZING					
		PM	0.0800 LB/H	BAGHOUSE	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 442.00 MMBTU/H

COMPANY NAME/SITE LOCATION HARNEY ELECT. HINES, OR

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-12
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/14/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	221.00 MMBTU/H EA				
		SO2	0.1800 LB/MMBTU	DRY SCRUBBING	BACT 85.00
		NOX	0.5000 LB/MMBTU	DRY COMBUSTION CONTROLS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 2360.00 T/D

COMPANY NAME/SITE LOCATION HOOKER ENERGY CORP. NIAGARA FALLS, NY

NIAGARA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NONE
DETERMINATION MADE BY EPA REGION II (AGENCY) BARRY TORNICK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/23/81
ESTIMATED DATE OF START-UP-- 1982
(212)-264-9579 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RDF/COAL FIRED BOILERS	2360.00 T/D REFUSE				
		SO2	1.2000 LB/MMBTU COAL		
			0.8000 LB/MMBTU OIL		
				CONTRL METHOD: FUEL S CONTENT	
		NOX	0.7000 LB/MMBTU COAL		
			0.3000 LB/MMBTU OIL		
				CONTRL METHOD: TEMP & E.A.	
		PM	0.1000 LB/MMBTU COAL		
			0.0700 LB/MMBTU OIL		
		PM	0.0300 GR/DSCF REFUSE		
		VE	20.0000 % OPACITY COAL		BACT
			20.0000 % OPACITY OIL		
		VE	20.0000 % OPACITY REFUSE		BACT

NOTES ----------
COAL USE LIMITED TO 30 DAYS PER YEAR. COMBUSTION FUEL EMISSION LIMITS INTERPOLATED BASED ON FUEL MIXTURE RATIO.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 237.00 MMBTU/H

COMPANY NAME/SITE LOCATION PHILIP MORRIS CHESTER, VA CHESTERFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 80VA06
DETERMINATION MADE BY VIRGINIA SAPCB (AGENCY) PAUL PITTS (AGENCY CONTACT PERSON) (804)-786-4867 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/20/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL/OIL FIRED	237.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	ESP	BACT 99.60
		NO2	0.7000 LB/MMBTU	COMBST MDLS CUT MAX FLAME TEMP	BACT
		VE	20.0000 % OPACITY		
		SO2	2.1000 LB/MMBTU COAL		BACT
			2.5100 LB/MMBTU OIL		BACT
				1.2% SULFUR COAL	

NOTES ----------
WHEN BURNING A MIXTURE OF COAL AND OIL, THE SO2 LIMIT SHALL BE DETERMINED USING THE FORMULA: E(SO2) = [2.51(X) + 2.1(Y)]/100 W
HERE X = % HEAT INPUT FROM OIL AND Y = % HEAT INPUT FROM COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 700.00 MW

COMPANY NAME/SITE LOCATION POWER AUTHORITY STATE OF NEW YORK STATEN, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) DENNIS SANTELLA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/22/82
ESTIMATED DATE OF START-UP-- 1987
(212)-264-9628 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	6700.00 MMBTU/H				
		PM	0.0210 LB/MMBTU COAL 0.0300 LB/MMBTU COAL/ROF		BACT
		PM	0.0120 LB/MMBTU OIL		BACT
		VE	20.0000 % OPACITY		
		SO2	0.4000 LB/MMBTU	FGD	BACT 92.00
		NOX	0.6000 LB/MMBTU COAL 0.3000 LB/MMBTU OIL	GOOD COMBUSTION	BACT
		CO	0.0410 LB/MMBTU	GOOD COMBUSTION	BACT
AUX. BOILER	220.00 MMBTU/H				
		PM	0.0840 LB/MMBTU	GOOD COMBUSTION	
		SO2	0.3000 % S FUEL		SIP
		NOX	0.3000 LB/MMBTU		
COAL HANDLING					
		COA*		USE OF PRE-WASHED COAL	BACT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CRUSHED					
COOLING TOWER		PM	0.0300 GR/DSCF		
		VE	20.0000 % OPACITY		BACT
		PM	0.0020 % OF H2O FLOW	DRIFT ELIMINATOR	

NOTES ----------
CONTACT REGION 2 FOR DESIGN SPECIFICS FOR CONTROL DEVICES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS

COMPANY NAME/SITE LOCATION STONE CONTAINER CORP. COSHOCTON, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-81-3
DETERMINATION MADE BY SE OHIO (AGENCY) GLEN GREENWOOD (AGENCY CONTACT PERSON) (614)-385-8501 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOOD/GAS	609.00 MMBTU/H				
		PM	0.0600 LB/MMBTU	MULTICLONE & VENTURI SCRUBBER	98.50
		SO2	0.0200 LB/MMBTU		
		CO	0.2000 LB/MMBTU		
		VOC	0.0200 LB/MMBTU		
		NOX	0.3600 LB/MMBTU		

NOTES ----------
BOILER BURNS WOOD WASTE OR NATURAL GAS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 659.00 MMBTU/H

COMPANY NAME/SITE LOCATION THE CHESAPEAKE CORP. WEST POINT, VA

KING WILLIAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 80VA03
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON) (215)-597-8186 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/07/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER,WOODWASTE	659.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	MULTIPLE CYCLONE & ESP	NSPS
		SO2	0.8000 LB/MMBTU	LOW SULFUR FUEL	90.60 NSPS
		NOX	0.3000 LB/MMBTU	GOOD DESIGN AND OPERATION	NSPS
		CO	0.2300 LB/MMBTU	GOOD DESIGN AND OPERATION	NSPS
		VOC	0.2300 LB/MMBTU	GOOD DESIGN AND OPERATION	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER VA-0001

SOURCE TYPE CODE 1.5

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 1055.00 MMBTU/H

COMPANY NAME/SITE LOCATION UNION CAMP CORP.
P.O. BOX 570
SAVANNAH, GA 31402
CHATHAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-GA-062
DETERMINATION MADE BY GEORGIA EPD (AGENCY)
BILL MITCHELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/01/80
ESTIMATED DATE OF START-UP--
(404)-656-6800 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL/WOOD WASTE	1055.00 MMBTU/H				
		PM	0.0750 LB/MMBTU	ESP	BACT 99.50
		SO2	1.2000 LB/MMBTU	LOW SULFUR FUEL	NSPS
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 195.00 MMBTU/H

COMPANY NAME/SITE LOCATION ATLANTIC SUGAR ASSOC.
P.O. DRAWER B PALM BEACH, FL 33430
PALM BEAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AC50-42389
DETERMINATION MADE BY FLORIDA DER (AGENCY)
BOB KING (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/06/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, BAGASSE	54681.00 LB/H BAGASSE				
		PM	0.1500 LB/MMBTU INPUT	JOY TURBULAIRE MODIFIED	BACT 92.00
BOILER, NO. 6 OIL	3.13 BBL/H #6 OIL				
		SO2	1.0000 % S OIL	FUEL ANALYSIS	BACT
		VOC		LAER DETERMINATION	
		VE	30.0000 % OPACITY	SEE NOTE	
BOILER, BAGASSE	54681.00 LB/H BAGASSE				
		PM	0.1500 LB/MMBTU INPUT	IMPINGER-SCRUB SIZE 90 TYPE D	BACT
		VOC	2.0000 LB/T BAGASSE FIRED		SCC

NOTES ----------
THE BOILER IS A FOSSIL FUEL FIRED UNIT MODIFIED TO BURN BAGASSE. OIL IS TO BE USED ONLY AS A SUPPLEMENTARY FUEL. OPERATION IS SEASONAL.
VE LIMIT MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORETHAN 2 MINUTES IN ANY ONE HOUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 51.20 MMBTU/H

COMPANY NAME/SITE LOCATION CENTRAL SOYA MARION, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-779
DETERMINATION MADE BY OHIO EPA - NWD (AGENCY) SAMIR ARAJ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/09/79
ESTIMATED DATE OF START-UP-- 1981
(419)-352-8461 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUIDIZIED BED BOILER	44.00 MMBTU/H	PM	0.0240 LB/MMBTU	BAGHOUSE	98.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER FARRAR, TX LIMESTONE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-371
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/10/81
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE-FIRED, 2 EA	7863.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS
		SO2		FLUE GAS DESULFURIZATION	99.95
		NOX	0.6000 LB/MMBTU	TANGENTIAL FIRING, LOW NOX BURNER	82.00 NSPS
		CO	0.1100 LB/MMBTU	CONTROLLED COMB. & O2 MON.	BACT
		VOC	0.0010 LB/MMBTU	BOILER DESIGN	BACT
		PB	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	BACT 98.00
		HG	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	BACT 13.00
		BE	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	BACT 99.40
		H2S*	0.0310 LB/MMBTU	MIST ELIMINATOR	BACT
LIMESTONE RAILCAR UNLOAD		PM	1.3300 LB/H	WET SUPPRESSION	BACT

(CONTINUED) HOUSTON LIGHTING & POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE RECLAIM & TRANSFER					
LIMESTONE LOADOUT		PM	0.0500 LB/H	BAGHOUSE	BACT 99.80
LIMESTONE STORAGE PILE		PM	0.0200 LB/H	BAGHOUSE	BACT 99.80
LIMESTONE RECLAIM TUNNEL		PM	0.3700 LB/H	TELESCOPIC CHUTE	BACT
LIMESTONE FEED SILO, 3 EA		PM	0.0200 LB/H	BAGHOUSE	BACT 99.80
FLYASH SILO		PM	0.0100 LB/H	BAGHOUSE	BACT 99.80
FEED SILO, WASTE BLENDING		PM	0.1200 LB/H	BAGHOUSE	BACT 99.80
PUGMILL, WASTE BLENDING		PM	0.1200 LB/H	BAGHOUSE	BACT 99.80
		PM	0.2100 LB/H	BAGHOUSE	BACT 99.80

NOTES ----------
PM LIMIT TO BE COMPUTED BY APPLICANT USING GRAPH DERIVED FROM NSPS (CONSIDER CONTROL EFFICIENCY AND FUEL SULFUR CONTENT). SULF
URIC ACID MIST LIMIT APPLIES WHEN FIRING LIGNITE WITH UP TO 1.71 LB/MMBTU.
OTHERWISE, 0.075 LB/MMBTU WHEN FIRING LIGNITE WITH MORE THAN 1.71 LB/MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 2010.00 T/D

COMPANY NAME/SITE LOCATION METROPOLITAN SERVICE DISTRICT OREGON CITY, OR

DETERMINATION IS B/L FOR A NEW SOURCE.
PERMIT NO. 03-2667
DETERMINATION MADE BY OREGON DEQ (AGENCY) LLOYD KOSTOW (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(503)-229-5186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 3	2010.00 T/D				
		PM	0.0150 GR/DSCF	BAGHOUSE	LAER 99.90
		VOC	0.1200 LB/T	GOOD COMBUSTION	BACT
		SO2	0.5730 LB/T	DRY SCRUBBER	BACT 80.00
		NOX	3.5800 LB/T		BACT
		HG	0.0025 LB/T	BAGHOUSE	BACT
		CO	1.4300 LB/T	GOOD COMBUSTION	BACT
		PB	0.0075 LB/T	BAGHOUSE	BACT
		FLU*	0.0170 LB/T	DRY SCRUBBER	BACT 70.00
		HCL	0.6690 LB/T	DRY SCRUBBER	BACT 90.00
		TET*	0.0000 LB/T	BAGHOUSE GOOD COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

THE FINAL PERMIT WAS NOT ISSUED BECAUSE APPLICATION WAS WITHDRAWN FOLLOWING DEFEAT OF THE PROJECT BY VOTE ON INITIATIVE. LIMIT ARE BASED ON PROPOSED PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 80.00 MW

COMPANY NAME/SITE LOCATION OCCIDENTAL GEOTHERMAL - OXY #1 , CA
LAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NSR-4-4-1 NC-81-03
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON) (415)-974-8209 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/10/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT	80.00 MW	H2S	8.0000 LB/H	STRETFORD PROC.,H2O2 TREAT., DESIGN	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 288.00 MMBTU/H

COMPANY NAME/SITE LOCATION OSCEOLA FARMS CO.
EAST OF PAHOKEE US-98 PAHOKEE, FL 33476
PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. FL-0012
DETERMINATION MADE BY FLORIDA DER (AGENCY) BOB KING (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/12/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, BAGASSE	80000.00 LB/H BAGASSE				
		PM	0.1500 LB/MMBTU INPUT	WET SCRUBBER JOY TYPE D TURBULAIRE	BACT 93.90
BOILER, NO.6 OIL	1.10 BBL/H #6 OIL				
		PM	0.1000 LB/MMBTU INPUT	SCRUBBER	BACT
		SO2	1.0000 % MAX S OIL		93.90
		VOC	2.0000 LB/T		BACT
			LAER DETERMINATION - SEE NOTE		SCC
		VE	30.0000 % OPACITY		
			SEE NOTE		BACT

NOTES ----------
LAER SAME AS DETERMINED FOR ATLANTIC SUGAR ASSOCIATION. OPERATION IS SEASONAL NOVEMBER THROUGH MARCH. NO.6 OIL IS USED AS A SU
PPLEMENTARY FUEL.
VE LIMITS MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MINUTES IN ANY ONE HOUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER

COMPANY NAME/SITE LOCATION PACIFIC GAS & ELECTRIC CO., GEYSERS UNI* , CA
SONOMA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) NSR-4-4-3 SSB-81-03
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON) (415)-974-8209 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/27/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT	2.00 MMLB/H STEAM	H2S	10.4000 LB/H	STRETFORD PROCESS & CATALYST SYS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 240000.00 LB/H

COMPANY NAME/SITE LOCATION SUGAR CANE GROWERS COOP.
P.O. BOX 666
BELLE GLADE, FL 33430
PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-077
DETERMINATION MADE BY FLORIDA DER (AGENCY)
BOB KING (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/28/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, BAGASSE/RESIDUE, #6 COM*	264000.00 LB/H				
		PM	0.1500 LB/MMBTU		BACT
			75.6000 LB/H		
				WET SCRUBBER	90.00
		SO2	14.0000 T/D		BACT
				LOW S OIL	
		CO	140.0000 LB/H		BACT
			326.0000 T/YR		
				EQUIPMENT DESIGN & OPERATION	
		VOC	140.0000 LB/H		BACT
			325.0000 T/YR		
				EQUIPMENT DESIGN & OPERATION	
		NOX	123.0000 LB/H		BACT
			209.0000 T/YR		
				EQUIPMENT DESIGN & OPERATION	
BOILER, #6 OIL	240000.00 LB/H STEAM				
		PM	0.1000 LB/MMBTU		BACT
				SCRUBBER	90.00
		SO2	1.0000 % S OIL		BACT
				FUEL FLOW	
				OIL CONSUM. NOT OVER 42 BBL/H	
		VOC		SEE NOTE	LAER
		VE	30.0000 % OPACITY		BACT

COMBUSTION
SEE NOTE

NOTES ----------
(1) RESIDUE IS A BYPRODUCT OF THE FURFURAL PROCESS. (2) LAER SAME AS DETERMINED FOR ATLANTA SUGAR ASSOCIATION. #6 OIL IS USED AS A SUPPLEMENTARY FUEL. OPERATION IS SEASONAL.
VE LIMIT MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MIN. IN ANY ONE HOUR. VOC LIMIT AND EFFICIENCY TO BE DETERMINED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION TEXAS UTILITIES GEN CO.
TWIN OAKS STATION FRANKLIN, TX
ROBERTSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-32
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 09/22/77
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE FIRED STEAM	1500.00 MW					
		SO2	1.2000	LB/MMBTU	FGD	
		PM	0.1000	LB/MMBTU	ESP	71.90
						99.50

NOTES ----------
LIGNITE-FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION TEXAS UTILITIES SERVICE, INC. KOSSE, TX 76653
OAK KNOLL STATION LIMESTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-47
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE FIRED STEAM	1500.00 MW				
		SO2	1.2000 LB/MMBTU	FGD	74.00
		PM	0.1000 LB/MMBTU	ESP	90.00

NOTES ----------
LIGNITE FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 792.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS UTILITIES SERVICE, INC. HENDERSON, TX
MILL CREEK RUSK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-44
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOE WINKLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/17/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE FIRED STEAM ELECT.	750.00 MW				
		SO2	1.2000 LB/MMBTU	FGD	89.70
		PM	0.1000 LB/MMBTU	ESP	99.44

NOTES ----------
EMISSIONS ARE BASED ON 1.06 LB/MMBTU SO2, 0.1 LB/MMBTU PART., AND 0.6 LB/HR NOX. LOWER EMISSIONS MAY BE REQUIRED.

LIGNITE FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 2250.00 T/D

COMPANY NAME/SITE LOCATION WESTCHESTER COUNTY RESOURCE RECOVERY PECKSKILL, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) BARRY TORNICK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/22/82
ESTIMATED DATE OF START-UP-- 1985
(212)-264-9579 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT?	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATORS, REFUSE FIRED, MAT*	750.00 T/D				
		PM	0.0300 GR/DSCF AT 12% CO	ESP	BACT 98.50
		CO	0.6200 LB/T REFUSE	DESIGN, HIGH XS AIR, GOOD COMBUSTION	BACT
		NOX	3.0000 LB/T REFUSE	DESIGN, PROPER OPERATION	BACT
		SO2			BACT
		PB	0.0300 GR/DSCF AT 12% CO	ESP	BACT 98.50
		HG	0.0300 GR/DSCF AT 12% CO	ESP	BACT 98.50
		BE	0.0300 GR/DSCF AT 12% CO	ESP	BACT 98.50
		ASB*	0.0300 GR/DSCF AT 12% CO	ESP	BACT 98.50

NOTES ---

(*) INDICATES MATTER WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1800.00 T/D RDF

COMPANY NAME/SITE LOCATION ENERGY ANSWERS CORP. ROCHESTER, MA
SEMASS PROJECT

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/15/82
PERMIT NO. ESD-1201614 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION I JOHN COURCIER (617)-223-4448
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER,WATER-COOLED, 3 EA.	600.00 T/D RDF EA				
		PM	0.0500 GR/DSCF 12% CO2		BACT
				ESP,3-STAGE	96.00
		SO2	0.3000 % S OIL		BACT
			0.2300 LB/MMBTU		
				LOW S #2 FUEL OIL/LOW S RDF	
		NOX	0.5000 LB/MMBTU		BACT
				BOILER DESIGN	

NOTES ----------
ALL BACT LIMITS WERE DETERMINED SIMPLY BY TECHNOLOGY AVAILABLE AND THE ECONO NOMIC IMPACTS OF OTHER CONTROLS.

(+) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1000.00 T/D

COMPANY NAME/SITE LOCATION MCKAY BAY REFUSE-TO-ENERGY PROJECT TAMPA, FL 33602

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. AC 29-47277
DETERMINATION MADE BY FLORIDA DER (AGENCY) JOHN SVEC (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/25/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MASS BURN FURNACES	1000.00 T/D WASTE	PM	0.0250 GR/DSCF AT 12% O2	ESP	LAER 99.00
		VE		CONTINUOUS OPACITY MONITOR	

NOTES ----------
CONTINUOUS OPACITY MONITOR LIMITS TO BE DETERMINED DURING PERFORMANCE TESTING. FACILITY TO INCLUDE WASTE HEAT BOILERS ANDTURBINE ELECTRICAL GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER FL-0030

SOURCE TYPE CODE 2.1

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1000.00 T/D

COMPANY NAME/SITE LOCATION MCKAY BAY REFUSE-TO-ENERGY PROJECT TAMPA, FL 33602

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD FL-086
DETERMINATION MADE BY FLORIDA DER (AGENCY)
JOHN SVEC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/02/82
ESTIMATED DATE OF START-UP-- 1984
(904)-488-1344 (PHONE)

PROCESS SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MASS BURN FURNACES	1000.00 T/D WASTE				
		SO2	170.0000 LB/H	LOW SULFUR FUEL	
		NOX	300.0000 LB/H	COMBUSTION TECHNIQUE	
		VOC	9.0000 LB/H	COMBUSTION TECHNIQUE	
		PB	3.1000 LB/H	ESP	98.00
		FLU*	6.0000 LB/H	NONE	
		HG	0.6000 LB/H	ESP	98.00
		BE	5.0000 G/D	ESP	

NOTES
FACILITY DESIGN ALLOWS FOR FUTURE INSTALLATION OF A SCRUBBER SYSTEM; NSPS APPLIES TO THIS FACILITY. FURNACES-FOUR 250 TPD USIN
G VOLUND TECHNOLOGY, WASTE HEAT BOILERS & TURBINE GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- REFUSE INCINERATION 600.00 T/D

COMPANY NAME/SITE LOCATION MUNICIPAL INCINERATOR PULASKI HWY
PULASKI HIGHWAY
BALTIMORE, MD 21237
BALTIMORE CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78MD-09
DETERMINATION MADE BY EPA REGION III (AGENCY) ED VOLLBERG (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/80
ESTIMATED DATE OF START-UP-- 1981
(215)-597-8990 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MUNICIPAL INCINERATOR	600.00 T/D MSW				
		PM	0.0300 GR/DSCF		SIP
			81.6000 T/YR		
				ESP	98.00
		SO2	35.1000 PPH		BACT
			154.0000 T/YR		
				PROPER COMBUSTION TECHNIQUES	
		CO	30.0000 PPH		BACT
			127.0000 T/YR		
				PROPER COMBUSTION TECHNIQUES	
		VOC	1.3000 PPH		BACT
			5.5000 T/YR		
				PROPER COMBUSTION TECHNIQUES	
		NOX	2.6000 PPH		BACT
			11.4000 T/YR		
				PROPER COMBUSTION TECHNIQUES	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- REFUSE INCINERATION 62.50 T/H WASTE

COMPANY NAME/SITE LOCATION NESWC RESOURCE RECOVERY FACILITY NORTH ANDOVER, MA

DETERMINATION :B BACT FOR A NEW SOURCE.
PERMIT NO. 819-121MA16
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON) (617)-223-4448 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/27/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATING UNITS, 2 INCIN*	750.00 T/D EA, WAS*				
		PM	0.0500 GR/DSCF AT 12% CO2	ESP	B/S 98.66
		SO2	0.3400 LB/MMBTU	LOW S FUEL - 0.3% S #2 OIL	BACT
		NOX	0.3200 LB/MMBTU	INCINERATOR DESIGN	BACT
		CO	0.0700 LB/MMBTU	INCINERATOR DESIGN	BACT 98.00
		SOX	0.0200 LB/MMBTU	INCINERATOR DESIGN	BACT
AUXILIARY BOILER, 1	19.60 MMBTU/HR				
		NOX	0.1550 LB/MMBTU	BOILER DESIGN	BACT
		CO	0.0350 LB/MMBTU	BOILER DESIGN	BACT 98.00
		SOX	0.0200 LB/MMBTU	BOILER DESIGN	BACT
		PM	0.1000 LB/MMBTU		B/S
		SO2	0.3400 LB/MMBTU	LOW S FUEL - 0.3% S #2 OIL	BACT

NOTES -----

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

LIMITS ARE REDUCTION OVER AP-42 EMISSIONS

(a) INDICATED DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 2010.00 T/D 3 UNITS

COMPANY NAME/SITE LOCATION M.E. MARYLAND WASTE DISPOSAL AUTHORITY BALTIMORE, MD 21230
1801 OLD ANNAPOLIS ROAD BALTIMORE CITY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 4(MD81)
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON) (215)-597-8186 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/10/81
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WATER WALL, 3 EA INCINERATOR	2010.00 T/D				
		SO2	335.0000 LB/H 1259.0000 T/YR		BACT
		CO	109.0000 LB/H 406.0000 T/YR		BACT
		NOX	227.0000 LB/H 999.0000 T/YR		BACT
		FLU*	4.2000 LB/H 15.7000 T/YR		BACT

NOTES
MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE PERFORMED LAER ANALYSIS FOR PARTICULATE MATTER. 0.019 GR/DSCF CORRECTED TO 12% CO IS BEING CONSIDERED (ESP).
EMISSION RATES BASED ON REFUSE CHARACTERISTICS. PERMITTEE IS TO PROVIDE PROCEDURES TO ENSURE ACCEPTABLE WASTE BEFORE OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 100.00 T/D SOLID WASTE

[illegible]/SITE LOCATION REEDY CREEK IMPROVEMENT DIST LAKE BUENA VISTA, FL 32830
P.O. BOX 36
ORANGE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-FL-046
DETERMINATION MADE BY FLORIDA DER ED PALAGYI DATE OF PERMIT ISSUANCE-- 02/11/81
(AGENCY) (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible] PYROLYSIS INCIN.	100.00 T/D				
		CO	2.2600 LB/MMBTU 91.2000 LB/H	FLUE GAS MONITORING SYS.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- REFUSE INCINERATION 960.00 T/D RDF

COMPANY NAME/SITE LOCATION REFUSE FUELS, INC. LAWRENCE, MA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 025-121MA12
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON) (617)-223-4448 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/23/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE,WATER WALL, BALANCED DR*	960.00 T/D RDF				
		PM	0.0250 GR/DSCF		LAER
				ESP,5-FIELD,IN SERIES	98.00
		SO2	0.8000 % S OIL		BACT
			1.2000 LB/MMBTU RDF		
				LOW S #6 OIL/LOW S RDF	
		NO2	0.7000 LB/MMBTU RDF		BACT
			0.3000 LB/MMBTU OIL		
				BOILER DESIGN	

NOTES -----------
LAER REQUIRED ON TSP FOR NONATTAINMENT AREA IN LAWENCE. BACT ON SO2 DETERMINED BY TECHNOLOGY AND ECONOMICS. BACT ON NO2 DETERMINED BY MEETING NSPS LIMITS FOR FOSSIL FUEL BOLIERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- REFUSE INCINERATION 75.00 T/D 2 EA

COMPANY NAME/SITE LOCATION RESOURCES AUTHORITY GALLATIN, TN
SUMMER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY TENNESSEE APC (AGENCY) MERVAT AHMED (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/01/80
ESTIMATED DATE OF START-UP--
(615)-741-3651 (PHONE)

PROCESSES SUBJECT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2 PARTICIPAL REFUSE BUR*	75.00 T/D EA	PM	0.0400 GR/SCF	SCRUB. & FABRIC FILTERS	NSPS 99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- REFUSE INCINERATION

COMPANY NAME/SITE LOCATION STEAM SUPPLY CORP. TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. T82-93
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/16/82
ESTIMATED DATE OF START-UP-- 1985
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATORS, SOLID WASTE, 3 EA	230.00 T/D				
		PM	31.7000 LB/H	3 ESP'S, SEE NOTE #2	98.00
		SO2	17.5000 LB/H		
		NOX	46.0000 LB/H		
		VOC	3.5000 LB/H		
		CO	54.6000 LB/H		
		HG	0.2000 LB/H		

NOTES -----
RATES ARE TOTAL EMISSIONS. 1)SIC CODES 4931 & 4961 ARE ALSO INVOLVED BECAUSE STEAM & ELECTRICITY WILL BE SOLD TO INDUSTRY.

2) PERFORMANCE STANDARDS OF 10% AVG. OPACITY (PER CLOCK HOUR) & 0.06 GR/DSCF CORRECTED TO 12% CO HAVE BEEN IMPOSED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SEWAGE SLUDGE INCINERATION

COMPANY NAME/SITE LOCATION CITY OF L.A., HYPERION, BUREAU OF ENGIN* LOS ANGLES, CA
CITY HALL

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NSR-4-4-9 LA-82-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) RICK SUGAREK (AGENCY CONTACT PERSON) (415)-974-8224 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/30/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 4, DIGESTER GAS FI*	8.00 MW EA				
		SO2	20.0000 PPM DRY BASIS	WET SCRUBBER	BACT 90.00
THERMAL PROCESSING WASTE HEAT R*		SO2	20.0000 PPM DRY BASIS 9.2000 LB/H	2 STAGE WET SCRUBBER/VENTURI SCRUB COUNTER CURRENT TRAY TOWER	BACT
		HG	0.2890 LB/H	2 STAGE WET SCRUBBER	BACT
		BE	0.0000 LB/H	FABRIC FILTER/2 STAGE WET SCRUBBER	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION DELAWARE SOLID WASTE AUTHORITY WILMINGTON, DE
NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 79DE02
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON) (215)-597-8186 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/14/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
AIR CLASSIFIER		PM	7.7000 LB/H	BAGHOUSE	BACT 99.90
AIR CLASSIFIER		PM	7.7000 LB/H		BACT
DUST CONTROL SYS		PM	5.2000 LB/H		BACT
GLASS RECOVERY		PM	6.2000 LB/H		BACT
AIR KNIFE		PM	3.8000 LB/H		BACT
SECONDARY AIR CLASSIFER		PM	4.1000 LB/H		BACT
DRYER		PM	12.8000 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION DELAWARE SOLID WASTE II WILMINGTON, DE
NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79DE02 II
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/14/80
ESTIMATED DATE OF START-UP--
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRYER					
DRYER		PM	0.4800 LB/H		BACT
BOILER		PM	1.0400 LB/H		BACT
BOILER		PM	0.0100 LB/H		BACT
HEATER		PM	0.0200 LB/H		BACT
VENTS, 3		PM	0.0010 LB/H		BACT
		PM	1.6000 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 26.00 MW

COMPANY NAME/SITE LOCATION CHUGACH ELECTRIC ASSOCIATION, UNIT #4 BERNICE LAKE, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X82-07
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1567 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/06/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE	26.00 MW				
		NOX	130.0000 LB/H 569.0000 T/YR	WATER INJECTION	
		PM	12.0000 LB/H 48.2000 T/YR	LOW S COAL,DISTILLATE OIL BACKUP	

NOTES ----------
THE BACT NOX EMISSION LIMIT WAS BASED ON THE NSPS. THE BACT PM EMISSION WAS BASED ON THE USE OF #2 DISTILLATE OIL, HOWEVER, TH
E COMPANY PLANS TO USE NATURAL GAS AS THE PRIMARY FUEL. BECAUSE OF LIMITED BACKUP CAPACITY AT THAT LOCATION,
THE COMPANY REQUESTED A PERMIT BASED ON 100% OIL USE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS LAKE STATION, KS KEARNY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/19/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. RECIP. ENGINES, GAS-FIRED,*	1475.00 HP EA	NOX	760.0000 PPMV,15%02 DRY BASIS OPERATE AT MAX EFFICIENCY	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION CROWN ZELLERBACH, INC. ANTIOCH, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 28179
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) DOUG WOLF (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/01/82
ESTIMATED DATE OF START-UP--
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE	30.00 MW				
		NOX	42.0000 PPM NO2 AT 15%O2	WATER/STEAM INJECTION	
DUCT BURNER	145.00 MMBTU/H				
		NOX	88.0000 PPM NO2 AT 3%O2	LO-NOX DESIGN	

NOTES ----------
BURNING NATURAL GAS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION KILN-GAS R & D INC. WOOD RIVER, IL MADISON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 82 07 0021
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE					
		SO2	150.0000 PPM	PURIFICATION OF PRODUCT GAS	NSPS
		NOX	75.0000 PPM	PURIFICATION OF PRODUCT GAS	NSPS
		CO	290.0000 LB/H	EQUIPMENT DESIGN	

NOTES ----------
TURBINE IS TO BE USED IN A 3 YR EXPERIMENTAL PROGRAM IN ASSOCIATION WITH A 600 TON PER DAY COAL GASIFICATION DEMONSTRATION PRO
JECT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 400.00 MMBTU/H

COMPANY NAME/SITE LOCATION KISSIMMEE UTILITIES
P.O. BOX 1608
KISSIMMEE, FL 32741
OSCEOLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-FL-087
DETERMINATION MADE BY FLORIDA DER (AGENCY) TERESA HERON (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)
DATE OF PERMIT ISSUANCE-- 02/19/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE	400.00 MMBTU/H				
		NOX	129.0000 PPM		NSPS
			0.0075 LB/MMBTU		
				WATER INJECTION	40.00
		SO2	388.0000 FUEL		BACT
				#2 FUEL OIL, WITH <0.8% SULFUR	
		VE	20.0000 % OPACITY		NSPS
		PM	16.0000 LB/H		BACT
			0.0362 LB/MMBTU		
				COMBUSTION CONTROL	

NOTES ----------
EXHAUST GASES INTO A WASTE HEAT BOILER. TOTAL ELECTRIC POWER GENERATED BY SYSTEM IS 49.9 GROSS MEGAWATTS. NOX EMISSION LIMITS SET BY SUB. GG, 60.332(A)(1).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 73.50 MW

COMPANY NAME/SITE LOCATION NEVADA PWR CO., CLARK STATION UNIT #7 EAST LAS VEGAS, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NV 78-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/01/79
ESTIMATED DATE OF START-UP--
(415)-974-8038 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEN., GAS TURBINE	73.50 MW				
		NO2	0.3400 LB/MMBTU	WATER INJECTION	
		PM	0.0300 LB/MMBTU		
		CO	0.1200 LB/MMBTU		
		SO2		0.25% S FUEL CONTENT	

NOTES ----------
REGENERATOR IS SUBJECT TO NSPS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 73.50 MW

COMPANY NAME/SITE LOCATION NEVADA PWR CO., CLARK STATION UNIT #8 EAST LAS VEGAS, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NV 80-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) LARRY BOWERMAN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/11/80
ESTIMATED DATE OF START-UP--
(415)-974-8213 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEN., COMBUSTION TURBINE	73.50 MW				
		NOX	0.3400 LB/MMBTU	WATER INJECTION	NSPS
		SO2		0.25% S FUEL OIL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION NORTHERN NATURAL GAS CUNNINGHAM, KS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/12/82
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. RECIP. ENGINES, DUAL FUEL,*	2250.00 HP EA				
		NOX	60.0000 LB/H		
		CO	15.0000 LB/H		
		VOC	3.9000 LB/H		

NOTES ----------
IN CONSIDERATION OF TEST RESULTS, THE CO EMISSION LIMIT WAS CHANGED FROM 9 TO 15 LB/H ON NOV. 29, 1982.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE CO. ELKHART STATION, KS
MORTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/18/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. RECIP. ENGINES, GAS FIRED,*	3200.00 HP EA	NOX	600.0000 PPMV,15%02 DRY BASIS PRE-IGNITION CHAMBER	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 303.00 MHP

COMPANY NAME/SITE LOCATION PRUDHOE BAY CONSORTIUM PRUDHOE BAY, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-01
DETERMINATION MADE BY EPA REGION X (AGENCY) DAVID TETTA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/29/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINES	303.00 MHP				
		NOX	150.0000 PPM	DRY CONTROLS	BACT
		CO	1.0900 LB/MMSCF FUEL	PROPER COMBUSTION	BACT
HEATERS	250.00 MMBTU/H				
		NOX	0.0800 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0100 LB/MMBTU	PROPER COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 200.00 MW

COMPANY NAME/SITE LOCATION PUGET SOUND POWER & LIGHT FREDONIA, WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-X-82-09
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1567 (PHONE)

DATE OF PERMIT ISSUANCE-- 08/23/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 2	100.00 MW EA	NOX	480.0000 LB/H 2061.0000 T/YR	WATER INJECTION	
		CO	185.0000 LB/H 645.0000 T/YR		
		SO2	640.0000 LB/H 154.0000 T/YR		
		PM	2.9000 LB/H 12.5000 T/YR		

NOTES ----------
THE NSPS LIMIT FOR NOX WAS THE BASIS FOR BACT. THE SO2 BACT LIMIT WAS BASED ON THE USE OF 0.5% S OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 3200.00 HP

COMPANY NAME/SITE LOCATION SW GAS STORAGE CO., PANHANDLE EAST. PIP* BROCHERS STATION , KS MEADE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 12/11/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINES, NAT. GAS FIRED, 5 IC R*	3200.00 HP EA	NOX	850.0000 PPM 15% O2 (D)	BACT

NOTES ----------
BORCHERS UNDERGROUND STORAGE FACILITY. (2-CYCLE, TURBO CHARGED ENGINES WITH STANDARD COMBUSTION CHAMBERS, DESIGNED TO OPERATE AT RELATIVELY LOW SPEED)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 18500.00 HP

COMPANY NAME/SITE LOCATION TEXAS EASTERN TRANSMISSION CO. DELMONT, PA
WESTMORELAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 82PA02
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/07/82
ESTIMATED DATE OF START-UP-- 1982
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE	18500.00 HP				
		NOX	150.0000 PPM	NATURAL GAS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 39.10 MW

COMPANY NAME/SITE LOCATION VULCAN MATERIALS CO. WICHITA, KS

SEDGWICK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/23/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, SIMPLE-CYCLE, NAT. GAS	39.10 MW	NOX	SEE NOTE STEAM INJECTION	BACT

NOTES ----------
THE UNIT IS SUBJECT TO NSPS, SUBPART GG.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 BRAKE HP

COMPANY NAME/SITE LOCATION ALGONQUIN GAS TRANSMISSION CO. CROMWELL, CT

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 026-042CT01
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON) (617)-223-4448 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/05/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE,TURBINE COMPRESSION	40.00 BHP	NO2	0.0135 % BY VOL MANUFACTURER'S GUARANTEE	BACT

NOTES ----------
NSPS USED AS GUIDE, BUT MODIFICATION WAS NOT SUBJECT TO NSPS. BACT BASED ON MANUFACTURER'S GUARANTEE. LIMIT MEASURED AT 15% O2 DRY BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 20.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, CHEYENNE NEAR ROCKPORT, CO
WELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 ENGINES	5130.00 HP				
		NOX	39.2400 LB/H DESIGN		BACT
2 REC ENGINES	5130.00 HP				
		CO			BACT
		NOX	68.0000 LB/H DESIGN		BACT
2 REC ENGINES	12000.00 HP				
		CO			BACT
		NOX	158.6000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 20.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, DEERTRAIL , CO

ELBERT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/24/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE	6000.00 HP	CO			
		NOX	79.3000 LB/H DESIGN		BACT BACT
2 ENGINES	16000.00 HP				
		CO			
		NOX	211.4000 LB/H DESIGN		BACT BACT
GEN. ENGINE	425.00 HP				
		CO			
		NOX	10.2000 LB/H DESIGN		BACT BACT
HEATER	6.00 MMBTU/H				
		CO			
		NOX	0.7600 LB/H		BACT BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 66.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, FLANK NEAR LA JUNTA, CO

BACA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/24/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H3 GLYCO REBOIL	8.00 MMBTU/H				
6 REC NG ENGS	13320.00 HP	NOX	8610.0000 SCFH		BACT
		NOX	83.1000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 44.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, KIT CARSON NEAR EADS, CO CHEYENNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, OPR	370.00 HP	NOX	8.9000 LB/H DESIGN		BACT
		CO			BACT
3 ENGINES	16000.00 HP	CO			BACT
		NOX	211.4000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 34.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, TOTEM/LONG , CO
ELBERT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
4 ENGINES	1340.00 HP	CO			BACT
		NOX	53.1600 LB/H DESIGN		BACT
6 ENGINES	2130.00 HP				
GENERATOR	370.00 HP	CO			BACT
2 HEATERS	16.00 MMBTU/H	CO			BACT
		NOX	8.9000 LB/H		BACT
6 ENGINES	8550.00 HP	CO			BACT
		NOX	2.5200 LB/H		BACT
		NOX	216.6000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 60.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, WATKINS NEAR WATKINS, CO ADAMS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE	1350.00 HP	CO			BACT
		VOC			BACT
		NOX	17.8400 LB/H DESIGN		BACT
4 ENGINES	10800.00 HP	CO			BACT
		VOC			BACT
		NOX	142.7200 LB/H DESIGN		BACT
5 ENGINES	30000.00 HP	CO			BACT
		VOC			BACT
		NOX	396.5000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 1600.00 HP 2 EA

COMPANY NAME/SITE LOCATION CONSOLIDATED GAS SUPPLY CORP.
HASTINGS COMPRESSOR STATION , WV
WETZEL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81WV01
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/14/81
ESTIMATED DATE OF START-UP-- 1982
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE	1600.00 HP	NOX	7.3300 G/SEC	NONE	BACT

NOTES ---
RELOCATION OF TWO 1600 HP. COOPER BESSEMER I.C. ENGINES. THIS RELOCATION WASA MAJOR MODIFICATION TO THE COMPRESSOR STATION REC
EIVING THE ENGINES. THE ENGINES WERE 16 YEARS OLD AND NATURAL GAS-FIRED. OPERATION LIMITED TO 5600 HRS./YR.
CONSOLIDATED GAS SUPPLY CO. REQUESTED A MOD. OF PSD PERMIT FROM USEPA REGION 3 ON 01/11/83. MOD. OF PERMIT WOULD INVOLVE ALTER
NATE METHOD OF OPER. OF COMPRESSOR ENGINES & AN INCREASE IN EMISSIONS OF NOX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION EL PASO NATURAL GAS CO., WASHINGTON RAN* WHITES CITY, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-428
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	4500.00 HP	NOX	2.4500 G/HP-H	COOPER ENERGY SERVICES	
ENGINE, I.C. COMPRESSOR	4500.00 HP	NOX	2.4500 G/HP-H	COOPER ENERGY SERVICES	

NOTES ----------
STACK TEST PERFORMED ON THESE TWO ENGINES BUT NO REPORT RECIEVED YET.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION GETTY OIL CO. SKELLYTOWN, TX
CARSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3878
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/12/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR 126TA 'CLEAN BURN' ENG*	2000.00 HP				
		NOX	77.2000 T/YR	COMBUSTION CHAMBER MOD.	
		CO	115.8000 T/YR		
		VOC	8.4000 T/YR		

NOTES ----------
2.0 G/HP-H NOX, 3.0 G/HP-H CO, 0.2 G/HP-H VOC

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION LLANO, INC. NEAR HOBBS, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-477
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/22/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN	
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN	

NOTES ----------
STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON TWO OF THE ABOVE MENTIONED FIVE ENGINES & THE ACTUAL EMISSIONS WERE 0.38 G/HP-H & 1.34 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 HP 2 EA

COMPANY NAME/SITE LOCATION MICHIGAN WISCONSIN PIPE LINE CO. CHARLTON TOWNSHIP, MI 49000 OTSEGO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 660-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 11/01/80
ESTIMATED DATE OF START-UP--
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, NAT. GAS, 2 EA	4000.00 HP				
		NOX	12.3000 G/HP-H	COMBUSTION MODIFICATIONS	

NOTES ----------
2 NATURAL GAS COMPRESSORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 24.00 MHP

COMPANY NAME/SITE LOCATION MTN FUEL RESOURCES-KASTLER , UT
DAGGETT COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/25/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
4 COMP UNIT	10400.00 HP				
		CO	228.0000 LB/H DESIGN		BACT
		VOC			BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 1669.00 HP

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE CO.
COGNAC STATION , KS
GRANT COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/28/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. RECIP. ENGINE, UNIT#3	1669.00 HP	NOX	700.0000 PPM 15% O2 (D)	PRE-IGNITION CHAMBER	BACT

NOTES ----------
IF CONSTRUCTION COMMENCES PRIOR TO JANUARY/1982, THE UNIT WILL NOT BE SUBJECT TO PROPOSED SUBPART FF OF THE NSPS REGS. THE PER MIT, HOWEVER, INCORPORATES SEVERAL PROVISIONS OF PROPOSED SUBPART FF AS PERMIT CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 18.00 MHP

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE-FRED. , CO
WELD COUNTY

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/25/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REC COMP ENG	4500.00 HP				
		CO			BACT
		VOC			BACT
		NOX	5.5000 G/HP-H		BACT
				ENG MODS	55.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 13746.00 HP

COMPANY NAME/SITE LOCATION PANHANDLE EAST., FT. LUPTON , CO
WELD COUNTY

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/29/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REC COMP ENG, 3	2246.00 BRAKE HP EA	NOX	55.0000 LB/H EA	ENG DESIGN & MODIFICATINS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 2000.00 HP EA

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS BIRMINGHAM, AL 35202
P.O. BOX 2563 JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AL-055
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) (205)-834-6570 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/29/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VERT COMPRESSOR ENGINES, 3 EA	6000.00 HP	NOX	16.5000 GM/HP-H	COMBUSTION CONTROL	BACT

NOTES ----------
THREE UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 68 GALLION, AL 36742
HALE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-AL-074
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 06/04/81
ESTIMATED DATE OF START-UP-- 1982
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VERTICAL COMPRESSOR ENGINE	4000.00 BRAKE HP	NOX	15.0000 G/HP-H EQUIPMENT OPERATION	

NOTES ----------
MANUFACTURER EMISSION TEST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 5000.00 BRAKE HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 67
ELMORE, AL 36025
ELMORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AL-075
DETERMINATION MADE BY ALABAMA APCD (AGENCY)
SUE ROBERTSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/04/81
ESTIMATED DATE OF START-UP-- 1982
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VERTICAL COMPRESSOR ENGINE	5000.00 BRAKE HP	NOX	15.0000 G/HP-H	EQUIPMENT OPERATION	BACT

NOTES ----------
MANUFACTURER EMISSION TEST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 15500.00 HP

COMPANY NAME/SITE LOCATION TENNESSEE GAS PIPELINE CO. MARIONVILLE, PA FOREST COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 27-399-001
DETERMINATION MADE BY PENNSYLVANIA BAQ, DER (AGENCY) WILLIAM CHARLTON (AGENCY CONTACT PERSON) (814)-724-8530 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/01/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS COMPRESSOR	15500.00 HP	NOX		LEAN BURN PROC./AIR-FUEL RATIO ADJUST.	PSD

NOTES ----------
EXISTING CAPACITY IS 11500 HP. PROPOSED ADDITIONS ARE 4000 HP. TOTAL CAPACITY WILL BE 15500 HP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., BITTER LAKE * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-274-M-2
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/23/82
ESTIMATED DATE OF START-UP--
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1596.00 HP	NOX	4.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS - 2.96 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., BITTER LAKE * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-274-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1050.00 HP				
		NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS - 2.42 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., ISLER NO. 1 * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-464
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/08/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1588.00 HP	NOX	4.0000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, -- RESULTS - 2.06 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., KEMNITZ STAT* NEAR HALJAMAR, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-399-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1072.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, -- RESULTS - 4.15 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-411-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1596.00 HP	NOX	4.0000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 3.58 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-412-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1073.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 2.4 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-413-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1588.00 HP	NOX	4.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 2.51 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-414-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	2647.00 HP	NOX	4.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 0.82 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-415-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	2585.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 3.2 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWSTERN PIPELINE CO., MALJAMAR STAT* NEAR MALJAMAR, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-387-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1073.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERRFORMED, EPA RREF. METHOD 20, -- RESULTS - 3.93 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 3000.00 HP

COMPANY NAME/SITE LOCATION VALERO TRANSMISSION CO. OLD OCEAN, TX
BRAZORIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3603
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/09/82
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS COMPRESSORS, 3	1000.00 HP EA	NOX	34.8000 T/YR		
		CO	64.4000 T/YR		
		VOC	0.7000 T/YR		

NOTES ----------
GAS TURBINES INHERENTLY CLEAN-BURNING WITH RESPECT TO NOX EMISSIONS. EMISSIONS OF NOX BASED ON 1.2 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 540.00 MW

COMPANY NAME/SITE LOCATION CAJUN ELECT. POWER COOP. NEW ROADS, LA POINTE COUPE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-062
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, COAL FIRED	540.00 MW	SO2		LOW SULFUR WESTERN COAL	
		PM			

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 6000.00 KW

COMPANY NAME/SITE LOCATION CITY OF AUGUSTA (MUNICIPAL ELECT. SYS, PLANT * AUGUSTA, KS BUTLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/29/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DUAL FUEL ENGINE, GEN. UNIT #10	6000.00 KW	NOX	1150.0000 PPM 15% O2 (D)		TEST
		SO2		FUEL STANDARD FUEL OIL S CONTENT-0.7% BY WT.	NAAQ
		CO			NAAQ

NOTES ----------
THE UNIT WILL NOT BE SUBJECT TO PROPOSED SUBPART FF OF THE NSPS REGULATIONS, WHEN PROMULGATED. THE PERMIT, HOWEVER, INCORPORATES SEVERAL PROVISIONS (E.G., PERFORMANCE TEST PROCEDURES, MONITORING OF EMISSIONS, ETC.) OF PROPOSED SUBPART FF AS PERMIT CONDITIONS. TEST DATA USED TO SET NOX STANDARD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 18611.00 HP

COMPANY NAME/SITE LOCATION CITY OF KINGMAN
P.O. BOX 168
KINGMAN, KS 67068
KINGMAN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/01/83
ESTIMATED DATE OF START-UP-- 1983
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
IC ENGINE, DUAL FUEL, UNIT 8	3495.00 HP				
		NOX	1150.0000 PPMV, 15% O2, DRY	EFFICIENT OPERATION OF THE UNIT	BACT

NOTES ----------
THE UNIT, A COOPER-BESSEMER MODEL LSV-12-GDT, WAS PREVIOUSLY OPERATED SINCE 1963 BY ANOTHER MUNICIPAL UTILITY. TO ENSURE THAT SO2 EMISSIONS WILL NOT INCREASE BY A "SIGNIFICANT" AMOUNT,
THE AMOUNT OF DISTILLATE FUEL OIL WHICH MAY BE COMBUSTED IS LIMITED TO 10% OF THE TOTAL ANNUAL HEAT INPUT FOR THE UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 16624.00 HP (TOTAL, TO BE AD*

COMPANY NAME/SITE LOCATION CITY OF OTTAWA OTTAWA, KS
FRANKLIN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/02/80
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECIP. ENGINES, 2 DUEL-FUEL IC,*	6000.00 KW EA				
		NOX	1150.0000	PPM 15% O2 (D)	BACT
		SO2		FUEL STANDARD	
				S IN FUEL LIM. TO 0.5% BY WT.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 90.00 MW

COMPANY NAME/SITE LOCATION EMPIRE DIST. ELECT. CO.
LARUSSELL STATION , MO
LAWRENCE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 01/07/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTION TURBINE, SIMPLE-CYC,*	1056.00 MMBTU/H (MA*				
		NOX	230.0000 PPMV, 15% O2, (ISO)-STAND. DAY COND.	DESIGN	BACT
		CO	56.0000 LB/H 21.0000 PPMV		BACT
		SO2		FUEL STANDARD SEE NOTE	

NOTES ----------
THE UNIT IS NOT SUBJECT TO NSPS, SUBPART GG. THE % S CONTENT OF THE FUEL TO BE BURNED IN UNIT 2 IS LIMITED BY PERMIT CONDITION S TO 0.8%, BY WT. THE NOX AND CO/BACT LIMITS WERE DERIVED FROM INFO. PROVIDED BY THE TURBINE MANUFACTURER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 252.00 MW

COMPANY NAME/SITE LOCATION FLORIDA POWER AVON PARK, FL 33733
HIGHLANDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. FL 017
DETERMINATION MADE BY FLORIDA DER (AGENCY) ED PALAGYI (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/21/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE PEAKING UNITS, 4 EA	63.00 MW EA				
		SO2	379.0000 LB/H EA 284.0000 T/YR	0.5% S FUEL OIL	BACT
		NOX	250.0000 LB/H 187.0000 T/YR	WATER INJECTION	NSPS
		CO	86.0000 LB/H 64.0000 T/YR	CONTROLLED COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 2672.00 MMBTU/H

COMPANY NAME/SITE LOCATION GULF STATES UTILITY
13 MI. S. BATON ROUGE BATON ROUGE, LA
IBERVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-292
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/30/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTION TURBINE(2)	1336.00 MMBTU/H				
		SO2	5.5000 LB/H		
			0.0040 LB/MMBTU GAS	NATURAL GAS FIRING	NSPS
		NOX	334.0000 LB/H		
			0.2500 LB/MMBTU GAS	STEAM/WATER INJECTION	NSPS
		CO	125.0000 LB/H		
			0.0900 LB/MMBTU GAS	COMBUSTION CONTROLS	BACT
		PM	1.0000 LB/H		
			0.0010 LB/MMBTU GAS	NATURAL GAS FIRING	BACT
		SO2	296.0000 LB/H		
			0.2200 LB/MMBTU OIL	.28% S. FUEL OIL	NSPS
		NOX	362.0000 LB/H		
			0.2700 LB/MMBTU OIL	STEAM/WATER INJECTION	NSPS
		CO	216.0000 LB/H		
			0.1600 LB/MMBTU OIL	COMBUSTION CONTROLS	BACT
		PM	33.0000 LB/H		BACT

0.0250 LB/MMBTU OIL
.1% ASH FUEL OIL

NOTES ----------
TWO COMBUSTION TURBINES ARE PERMITTED TO FIRE EITHER NATURAL GAS OR FUEL OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 100.00 MW

COMPANY NAME/SITE LOCATION GULF STATES UTILITY
8 MI WNW OF LAKE CHARLES LAKE CHARLES, LA
CALCASIEL PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-294
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/22/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	1396.00 MMBTU/H				
		SO2	0.3500 LB/MMBTU OIL		
			0.0010 LB/MMBTU GAS		NSPS
				LOW SULFUR OIL (0.46%)	
		NOX	0.2600 LB/MMBTU OIL		
			0.2500 LB/MMBTU GAS		NSPS
				WATER/STEAM INJECTION	
		CO	0.1600 LB/MMBTU OIL		60.00
			0.0900 LB/MMBTU GAS		BACT
				EFFICIENT DESIGN	
		PM	0.0900 LB/MMBTU OIL		
			0.0010 LB/MMBTU GAS		BACT
				LOW ASH OIL (0.1%)	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 23.30 MKW

COMPANY NAME/SITE LOCATION HOFFMANN-LAROCHE, INC. BELVIDERE, NJ 07823
MANUNKACHUNK AVENUE WARREN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/17/81
ESTIMATED DATE OF START-UP--
(212)-264-9538 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIESEL ENGINE, W/WASTE HEAT BOI*	23.30 MKW	NOX	2272.0000 T/YR	WASTE HEAT BOILER RETARD. FUEL INJ. TIMING	NSPS

NOTES ----------
SPECIFIC LIMITATIONS IN TERMS OF CAPACITY SHALL BE MET (AS PERMIT CONDITIONS) FOR THE OPERATION OF THE DIESEL COGENERATION FACILITY IN COMBINATION WITH SOME OF THE FIVE EXISTING BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION MUNICIPAL GENERATING PLANT BELOIT, KS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE--
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE-GENERATOR	6000.00 KW				
		NOX	1150.0000	PPMV,15%O2 DRY BASIS	
		SO2		FUEL STANDARD	
				S CONTENT LIM. TO 0.7% BY WT.	
		CO			

NOTES ----------
TEST DATA USED TO ESTABLISH NOX STANDARD

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 250.00 MW

COMPANY NAME/SITE LOCATION NEVADA PWR CO./REID GARDNER STATION MOAPA, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NV 79-03
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON) (415)-974-8038 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/01/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	% BASIS PCT EFF
GENERATOR	250.00 MW				
		SO2	0.2900 LB/MMBTU		
				WET SCRUBBER	80.00
		NOX	0.5000 LB/MMBTU SB. COAL		
			0.6000 LB/MMBTU BIT. COAL		
				PROPER BOILER DESIGN & OPER.	
		PM	0.0300 LB/MMBTU		
				BAGHOUSE	99.60

NOTES ----------
ALL EMISSION LIMITS ARE BASED ON: NSPS, AND BACT DETERMINED BY TECHNOLOGY ANDECONOMICS. ADDITION OF GENERATOR TO AN EXISTING F ACILITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 160.00 MHP

COMPANY NAME/SITE LOCATION PRUDHOE BAY CONSORTIUM PRUDHOE BAY, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-13
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1193 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/17/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 10	16.00 MHP EA				
		NOX	150.0000 PPM	DRY CONTROLS	BACT
		CO	109.0000 LB/MMSCF FUEL	MONTGOMERY PROPER COMBST. COND.	BACT
GAS HEATERS					
		NOX	0.0800 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0180 LB/MMBTU	MONTGOMERY PROPER COMBST. COND.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION SEA WORLD, INC. 1720 SOUTH SHORES RD. SAN DIEGO, CA 92109

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 7801
DETERMINATION MADE BY SAN DIEGO APCD (AGENCY) GUS ANDERSON (AGENCY CONTACT PERSON) (619)-565-3925 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/11/82
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
I.C. PISTON ENGINE	7.10 MMBTU/H				
		NOX	1.8000 LB/MMBTU SEE NOTE	SINGLE STAGE CATALYTIC CONVERT.	
		CO	1.5000 LB/MMBTU SEE NOTE	SINGLE STAGE CATALYTIC CONVERTER	

NOTES ----------
COGENERATION UNIT CONSISTING OF 930 BHP I.C. PISTON ENGINE, NATURAL GAS FUELED, 630 KW ELECTRIC GENERATOR AND EQUIPPED FOR WAS
TE HEAT RECOVERY.
BEFORE USING THE EMISSION UNITS SHOWN, THE SAN DIEGO AGENCY SHOULD BE CONTACTED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION SEA WORLD, INC.
1720 SOUTH SHORES RD. SAN DIEGO, CA 92109

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY SAN DIEGO APCD (AGENCY) GUS ANDERSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/15/83
ESTIMATED DATE OF START-UP-- 1983
(619)-565-3925 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. PISTON ENGINE	7.10 MMBTU/H				
		NOX	0.2480 LB/MMBTU	2 STAGE CATALYTIC CONVERT.	90.00
		CO	0.2300 LB/MMBTU	2 STAGE CATALYTIC CONVERTER	90.00

NOTES ----------
COGENERATION UNIT CONSISTING OF 930 BHP I.C. PISTON ENGINE, NATURAL GAS FUELED, 630 KW ELECTRIC GENERATOR AND EQUIPPED FOR WAS TE HEAT RECOVERY. PERMIT PENDING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 40.00 MW

COMPANY NAME/SITE LOCATION SEBRING UTILITIES COMMISSION
368 S. COMMERCE AVE. P.O. BOX* SEBRING, FL 33870
HIGHLANDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-071
DETERMINATION MADE BY FLORIDA DER (AGENCY)
ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIESEL ENGINES	19.53 MW EA				
		NOX	819.0000 PPMV	COMBUSTION CONTROL	NSPS
		SO2	2.6700 LB/MMBTU	2.5% SULFUR OIL	BACT
		PM	0.1000 LB/MMBTU	COMBUSTION CONTROL	BACT
		CO	0.5750 LB/MMBTU	EQUIPMENT OPERATION	NSPS
		VOC	0.2600 LB/MMBTU	EQUIPMENT OPERATION	NSPS

NOTES ----------
TWO UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 27.50 MMCF/D

COMPANY NAME/SITE LOCATION SHELL OIL CO. NEAR MCCAMEY, TX UPTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-360
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, RECIPROCATING FUE*	1215.00 HP	NOX	10.0000 G/HP-H	DERATED OLD ENGINES	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 12000.00 KW

COMPANY NAME/SITE LOCATION TRENTON DISTRICT ENERGY CO. TRENTON, NJ
S. WARREN BET. LIVINGSTON & F* MERCER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 10/29/81
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (AGENCY CONTACT PERSON) (212)-264-9538 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIESEL ENGINES, W/2 SUP. FIRED *	6.00 MKW EA				
		PM	71.0000 T/YR	SUPPLEMENTARY FIRED BOILERS PROPER COMBST. OF EXAUST GASES	
		SO2	482.0000 T/YR	LOW SULFER FUEL LOW SULFUR FUEL	SIP
		NOX	1869.0000 T/YR	USE OF MANUFACT. ENG. MOD.	DESI

NOTES ----------
GOOD COMBUSTION PRACTICE & USE OF LOW SULFUR FUEL OIL, 0.5% BY WT., & USE OF NATURAL GAS AS AVAILABLE,ARE REQUIRED FOR WASTE H
EAT BOILERS. BASIS FOR PM CONTROL IS CONTROL EQUIPMENT.
BASIS FOR PM CONTROL IS CONTROL EQUIPMENT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION BALL METAL CONTAINER GROUP EAST FINDLAY, OH

DETERMINATION AS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 03-1025
DETERMINATION MADE BY OHIO EPA - NWD (AGENCY) DON WALTERMEYER (AGENCY CONTACT PERSON) (419)-352-8461 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/10/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
EXTERIOR BASE OPERATION	300.00 MM CANS/LIN*	VOC	0.3600 KG/L COATING SOLIDS THERMAL INCINERATOR	NSPS 85.00
INTERNAL COAT	300.00 MM CANS/LIN*	VOC	0.5400 LB/GAL OF COATING - H20	BACT

NOTES ----------
PERMIT REQUIRES THAT VOC EMISSIONS SHALL NOT EXCEED ANY NSPS LIMITS APPLICABLE TO BEVERAGE CAN SURFACE COATING. IT REQUIRES TH
E SOURCE TO NOTIFY OF 1) CONSTRUCTION DATE, 2) ANTICIPATED STARTUP DATE, 3) ACTUAL STARTUP DATE, AND 4) DATE
OF PERFORMANCE TESTING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER OH-0035

SOURCE TYPE CODE 4.1

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION EVANS COOPERAGE CO., INC. TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. T82-31
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/04/82
ESTIMATED DATE OF START-UP-- 1983
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HAND SPRAY DRUM PAINTING	72.00 DRUMS/H	VOC	15.6800 LB/H	HIGH SOLIDS PAINT,43.9% SOLIDS	12.90

NOTES ----------
1) VOC REDUCTION IN PAINTS BACT BECAUSE OF ECONOMIC FACTOR. ANY OTHER CONTROLS WOULD HAVE COST 50% OF THE TOTAL INVESTMENT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS 600.00 MM CANS/YR

COMPANY NAME/SITE LOCATION MILLER BREWING CO. MOULTRIE, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 3411-035-6706-C
DETERMINATION MADE BY GEORGIA EPD (AGENCY) HAI CHANG (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/02/79
ESTIMATED DATE OF START-UP-- 1981
(404)-656-6900 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BASE COATING	298.00 T/YR	VOC	1.8500 LB/GAL COATING - H2O	LOW SOLVENT COATING	
INTERIOR BODY SPRAYING	182.00 T/YR	VOC	3.9900 LB/GAL COATING - H2O	LOW SOLVENT COATING	
OVERVARNISH	76.00 T/YR	VOC	2.3300 LB/GAL COATING - H2O	LOW SOLVENT COATING	
END SEALING COMPOUND	66.00 T/YR	VOC	3.7000 LB/GAL COATING - H2O	LOW SOLVENT COATING	

NOTES ----------
PLANT CURRENTLY DOES NOT PREFORM ANY BASE COATING OPERATION. COMPLIANCE COATINGS ARE NOW BEING USED FOR THE OTHER THREE COATIN
G OPERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION NATIONAL CAN CORP. CHICAGO, IL
COOK COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. C 7906091
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/09/81
ESTIMATED DATE OF START-UP--
(217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATER & OVENS		VOC	209.6000 T/YR	COATING BREAKDOWN SEE NOTES	LAER

NOTES ----------
COATING SOLVENT LIMITATION - INSIDE SPRAY 3.63 LB/GAL, BOTTOM END SPRAY 2.1 LB/GAL, OVERVARNISH 2.1 LB/GAL, BASECOAT 1.8 LB/GAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION PREFINISH METALS WALBRIDGE, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 03-746
DETERMINATION MADE BY OHIO EPA - NWD (AGENCY) CHUCK HULL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/04/79
ESTIMATED DATE OF START-UP-- 1981
(419)-352-8461 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 COIL COATERS & OVENS	700000.00 T/H, VARIES	VOC	37.0000 LB/H	AFTERBURNERS	97.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION STROH CONTAINER FREMONT, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-807
DETERMINATION MADE BY OHIO EPA - NWD (AGENCY) DON WALTERMEYER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/30/79
ESTIMATED DATE OF START-UP-- 1981
(419)-352-8461 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BASE, BOTTOM, AND INTERNAL COAT*	3000.00 CANS/MIN.	VOC	40.0000 T/YR	CATALYTIC INCINERATOR	90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION ALLIED PRINTERS & PUBLISHERS, INC. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. T80-74
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/13/81
ESTIMATED DATE OF START-UP-- 1980
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WEB OFFSET PRINTING PRESS	800.00 FT/SEC				
		VOC	0.7140 LB/H	STRAIGHT FLAME INCIN., W/PREHEATER HIGH SOLIDS INK (68%)	90.00

NOTES ----------
1) DECREASE IN VOC CONTENT. EFFICIENCY = 12.5%. 2) CONVERSION OF PHOTOCHEMICAL REACTANTS TO NON-REACTANT MATERIALS. EFFICIENCY = 90%

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION AVERY INTERNAT PAINESVILLE TWP., OH LAKE COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0243110957
DETERMINATION MADE BY OHIO EPA NED (AGENCY) DENNIS BUSH (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 06/11/81
ESTIMATED DATE OF START-UP--
(216)-425-9171 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VINYL AND PAPER COATING LINE	63.90 GAL/H	VOC	2.6000 LB/GAL COAT. APPLIED 132.8000 T/YR	LOW SOLVENT COATING	LAER

NOTES ----------
LAER LIMITS AND ANNUAL MAX. EMISSION IMPOSED BY PERMIT CONDITIONS WHICH REQUIRES REDUCTIONS FROM SOURCE K007 OF 159.4 TPY TO P
ROVIDE THE OFFSET AND FURTHER REDUCTIONS FROM 6 (CONT. 27)
OTHER COATING LINES TO LIMIT VOC EMISSIONS TO 2.05 LB/GAL, EXCL. WATERBY 4-1-82

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION DIETZGEN CORP. DES MOINES, IL

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. C8006034
DETERMINATION MADE BY EPA REGION V (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/11/80
ESTIMATED DATE OF START-UP-- 1981
(217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROLLER COATER LINE					
		VOC	0.6000 LB/GAL COATING	AFTERBURNER	LAER 90.00

NOTES ----------
90% EFFICIENCY REQUIRED OF AFTERBURNER SYSTEM (CAPTURE & DESTRUCTION).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS 240.00 LB/H

COMPANY NAME/SITE LOCATION FRYE COPY SYS, INC GOSHEN, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(20)1480
DETERMINATION MADE BY INDIANA APCD (AGENCY) FRANK PROFIT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/07/00
ESTIMATED DATE OF START-UP--
(317)-633-0664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAPER COATING LINE	240.00 LB/H				
		VOC	25.0000 T/YR		
				CARBON ABSORBER	95.00

NOTES ----------
4000 HRS/YEAR OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION INTERNAT. LABEL MFG. FAC. CLARKSVILLE, TN MONTGOMERY COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PSD-TN-060
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) ANGIE PITCOCK (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 03/26/80
ESTIMATED DATE OF START-UP--
(615)-741-3651 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAPER PRINTING	3454.00 LB/H				
		VOC	46.9400 T/YR	CARBON ADSORP. BEDS + INCIN.	LAER 99.90
BOILERS, NAT. GAS, 3 EA		SO2	152.8800 T/YR		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION ITEN FIBRE CO. ASHTABULA, OH ASHTABULA COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0204010112
DETERMINATION MADE BY OHIO EPA NED (AGENCY) DENNIS BUSH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP--
(216)-425-9171 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RESIN COATING LINE		VOC	2.9000 LB/GAL COAT. APPLIED 516.0000 T/YR	LOW SOLVENT COATING	LAER

NOTES ----------
COMPANY TO REPORT QUARTERLY OR MONTHLY COATING USE, TOTAL VOC EMISSIONS, AND LB/GAL VOC EMISSIONS RATE.

OFFSETS NOT REQUIRED RURAL AREA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS 450.00 LB/H

COMPANY NAME/SITE LOCATION MURRAY RUBBER, (MEAD COMPANY) HOUSTON, TX 77040 HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9040
DETERMINATION MADE BY TEXAS ACB (AGENCY) ART KELLOGG (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/01/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FABRIC COATER	450.00 LB/H	VOC	27.0000 LB/H	THERMAL OXIDIZER	90.00

NOTES ----------
THIS SYSTEM REDUCES EMISSIONS TO 0.83 LB/GAL APPLIED W/GREATER THAN 90% EFFICIENCY (MAXIMUM). TACB REGULATIONS & EPA GUIDELINE
S ALLOW A MAX. OF 2.9 LB/GAL APPLIED. THE OXIDIZER REQUIRES NO FUEL FOR OPER. OTHER THAN THE DRYER EMIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION NDM CORP. MORAINE, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0857101457 K001
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY) THURMAN SMITH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/23/82
ESTIMATED DATE OF START-UP-- 1982
(513)-225-4435 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAPER COATING	30.00 FT/MIN				
		VOC	19.0000 LB/H 11.4000 T/YR	THERMAL INCINERATOR	99.70

NOTES ----------
THERMAL INCINERATOR WAS TESTED AT 99.7% OVERALL EFFICIENCY. COATING MUST MEET 2.9 LB VOC/GAL COATING OR CONTROL EQUIPMENT MUST PROVIDE AN EMISSION REDUCTION OF 50.5%. PERMIT RESTRICTS OVERALL EFFICIENCY TO NO LESS THAN 85.5%.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS 75.00 CARS/H

COMPANY NAME/SITE LOCATION CHRYSLER CORP.
JEFFERSON AV. ASSEMBLY PLANT DETROIT, MI 48226
WAYNE COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. C-5366 THRU C-5369
DETERMINATION MADE BY WAYNE COUNTY APCD (AGENCY) AL SCHEANS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/05/80
ESTIMATED DATE OF START-UP-- 1980
(313)-224-4693 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TACK-OFF BOOTH					
COLOR SPRAY BOOTH	500000.00 SCFM	VOC		EXHAUST THRU SPRAY BOOTH	LAER
COLOR FLASH-OFF BOOTH	10000.00 SCFM	VOC		SEE NOTE	
DOUBLE-WIDTH OVEN	6668.00 SCFM	VOC	25.2000 LB/GAL APPL. SOL		LAER
		VOC	12.9000 LB/GAL APPL. SOL	OVEN EXHAUST INCIN.	90.00

NOTES ----------
STAGED LAER CONCEPT PROVIDING FOR PHASE-IN OF NEW TECHNOLOGY AS IT IS DEVELOPED - PHASE 1, START UP USING LOW VOLTAGE ELECTROS
TATIC PAINT SPRAYING AND OVEN EXAUST INCINERATION; PHASE 2, INTRODUCTION OF HIGH VOLTAGE
ELECTROSTATIC PAINT SPRAYING; PHASE 3, INTRODUCTION OF HIGH SOLIDS TOPCOAT ENAMELS BY 8/31/83.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION FORD MOTOR CO.
MILAN PLASTICS PLANT
MILAN, MI
MONROE COUNTY

DETEPMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 447-454/79 + 456/79
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/01/80
ESTIMATED DATE OF START-UP--
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ELECTROSTATIC PAINT SYS.					
		VOC	457.5000 LB/H	CATALYTIC INCINERATOR	LAER 95.00
COMPOUND MACHINES, DIRECTIONAL *				ELECTROSTATIC SPRAY BOOTHS	
		VOC	0.7400 LB/H	CARBON ADSORPTION	LAER 90.00
		VOC	9.0700 LB/H	NONE	LAER

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS — 60.00 TRUCKS/H

COMPANY NAME/SITE LOCATION GM WORLD WIDE TRUCK DIV
2601 WEST STROOP ROAD — MORAINE, OH 45439
MONTGOMERY COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 08-215
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY) — AMY WRIGHT (AGENCY CONTACT PERSON) — (513)-225-4435 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/13/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ELPO PRIME	63.50 UNITS/H	VOC	1.2000 LB/GAL COATING MINUS H2O CATHODIC EDP	LAER
PRIMER SURFACER	63.50 UNITS/H	VOC	2.8800 LB/GAL COATING MINUS H2O 15.8400 LB/GAL VOC SOLIDS APPL WITH 62% TRANSFER EFFICIENCY	LAER
TOP COAT	63.50 UNITS/H	VOC	3.6000 LB/GAL COATING MINUS H2O 15.0500 LB/GAL VOC SOLIDS APPL WITH 59% TRANSFER EFFICIENCY	LAER
ANTI-CORROSION	63.50 UNITS/H	VOC	4.3000 LB/GAL COATING MINUS H2O WITH 90% TRANSFER EFFICIENCY	LAER
PLASTISOL/ANTI-CHIP	63.50 UNITS/H	VOC	3.5000 LB/GAL COATING MINUS H2O WITH 50% TRANSFER EFFICIENCY	LAER

(CONTINUED) GM WORLD WIDE TRUCK DIV

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CHASSIS BLACK	63.50 JOB/H	VOC	3.5000 LB/GAL VOC MINUS H2O	
WHEEL PAINT	63.50 JOB/H	VOC	3.7000 LB/GAL VOC MINUS H2O	
MAST JACKET	63.50 JOB/H	VOC	6.3000 LB/GAL VOC MINUS H2O	
FINAL REPAIR	63.50 JOB/H	VOC	4.8000 LB/GAL VOC MINUS H2O	

NOTES ----------
MISCELLANEOUS FUGITIVE VOC EMISSIONS ARE ESTIMATED TO TOTAL 488 TPY FROM THIS FACILITY.

TOTAL VOC EMISSIONS NOT TO EXCEED 2050 TPY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION VOLKSWAGEN OF AM
16 MILE ROAD & VAN DYKE AVENUE STERLING HEIGHTS, MI 48077
OAKLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 250-80 TO 273-80, 3*
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) JON TROUT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/01/80
ESTIMATED DATE OF START-UP--
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINTING OPERATIONS		VOC	SEE NOTE SEE NOTES		

NOTES ----------
CHECK WITH STATE FOR DETAILS. EMISSION LIMITS TOO EXTENSIVE TO MENTION HERE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - METAL FURNITURE

COMPANY NAME/SITE LOCATION STEELCASE, INC.
1120 36TH STREET
GRAND RAPIDS, MI 49501
KENT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 51-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
JOHN CAUDELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/01/80
ESTIMATED DATE OF START-UP-- 1981
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	40000.00 LB/H				
		PM	0.0500 LB/MMBTU	CYCLONE & BAGHOUSE	99.00
		SO2	1.6000 LB/MMBTU	LOW S COAL, MAX 1%	
		NOX	0.6000 LB/MMBTU	CONTROL EXCESS & OVERFIRE AIR	
COAL & ASH HANDLING SYS.					
		PM	0.0300 GR/DSCF	FABRIC FILTER DUST SUPPRESENT	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - MAGNET WIRE

COMPANY NAME/SITE LOCATION PHELPS DODGE, MAGNET WIRE CORP.
P.O. BOX 768
HOPKINSVILLE, KY 42440
CHUSTION COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-75-16
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/25/75
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OVENS, 4	1501.00 T/YR COATING	VOC	40.8000 LB/H 675.4900 T/YR	INCINERATOR	90.00
OVENS, FINE WIRE, 10	165.00 T/YR COATING	VOC	4.5500 LB/H 19.1100 T/YR	INCINERATOR	90.00
OVENS, 1 HEAVY & 1 MEDIAN WIRE	514.00 T/YR COATING	VOC	13.9600 LB/H 58.6000 T/YR	INCINERATOR	90.00
OVENS, 6 HEAVY & 1 FINE WIRE	2158.00 T/YR COATING	VOC	31.3000 LB/H 85.9000 T/YR	CATALYTIC (1350 F), THERMAL INCINERATOR	BACT 95.00
OVEN, 1 FINE WIRE	16.00 T/YR COATING	VOC	0.4550 LB/H 1.9100 T/YR		

NOTES ----------
ALSO COVERS PERMIT NUMBERS C-75-23, C-77-75, C-78-60, C-79-013.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SURFACE COATING - LARGE APPLIANCES

COMPANY NAME/SITE LOCATION SANYO E&E CORP.
400 RUFFIN RD. SAN DIEGO, CA 92123

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 07037
DETERMINATION MADE BY SAN DIEGO APCD (AGENCY) LORENZO ALEJANDRIA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/21/81
ESTIMATED DATE OF START-UP-- 1979
(619)-565-3914 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATING LINE	107.50 GAL/D	VOC	275.0000 G/LITER OF COATING	HIGH SOL. COAT. TO LOW SOL. COAT..	BACT

NOTES ----------
AVERAGE SOLVENT CONTENT OF COATINGS USED BEFORE MODIFICATION WAS 365.9 G/LITER, & AFTER MODIFICATION, THE SOLVENT CONTENT OF NEW COATINGS IS 280 G/LITER (WITH 10% DEVIATION FOR UNSTANDARDIZED TEST METHOD USED & AGREED BY APCD).
COATING LINE INCLUDES ONE AUTOMATIC PAINT SPRAY BOOTH USING ELECTROSTATIC SPRAY DEVICES, TWO TOUCHUP SPRAY BOOTHS, ONE BAKING OVEN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS

COMPANY NAME/SITE LOCATION MARK IND. SELMA, TX GUADALUPE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3697
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/20/82
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY BOOTHS, 2		VOC	7.6400 T/YR	ELECTROSTATIC PAINT GUNS/DRY FILTER WATERBASE PAINT, HEATED, AIRLESS	90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- SOLVENT DEGREASING

COMPANY NAME/SITE LOCATION BRIGGS & STRATTON CORP. MENOMONEE FALLS, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-GEB-81-68-002
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/04/81
ESTIMATED DATE OF START-UP--
(608)-266-0244 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DEGREASERS		VOC		LAER

NOTES ----------
OFFSETS FOR NEW EQUIPMENT COVERED PERMIT, EXCLUDING RELOCATED EQUIPMENT AT 20% OBTAINED FROM DISCONTINUING DETREX LDC-750-1G, #57920, CONVEYERIZED DEGREASER LOCATED AT BRIGGS & STRATTON BURLEIGH ST PLANT, MILWAUKEE
DISCONTINUED CONVEYOR CREATED 73.62 TPY EMISSION REDUCTION, 19.49 TPY ASSIGNED TO OFFSET SOURCES UNDER MIN-05-80-68-126, 19.82 TPY ASSIGNED FOR OFFSETS THIS PERMIT, REMAINING 24.31 TPY BANKED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS CARPHANE FILMS OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-EYE-81-71-083
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/25/81
ESTIMATED DATE OF START-UP--
(608)-266-0244 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SARAN COATERS, 2 EA		VOC	0.3200 KG/L 2.6700 LB/GAL	LOW SOLVENT COATING	LAER

NOTES ----------
OFFSET FROM SHUTDOWN OF #14 LAMINATOR AT CURWOOD, NEW LONDON

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS CO. OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-03-80-71-125
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON) (608)-266-0244 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/13/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLEXOGRAPHIC PRINTING PRESS #8					
		VOC	85.0000 % REDUCTION	LOW SOLVENT COATINGS	LAER
EXTRUSION COATER #9					
		VOC	0.0900 KG/L 1.5600 LB/GAL	LOW SOLVENT COATINGS	LAER
LAMINATOR #16					
		VOC	0.1700 KG/L 1.4300 LB/GAL	LOW SOLVENT COATINGS	LAER

NOTES ----------
OFFSET FROM CLOSING #1 SARAN COATER & LAMINATOR #11

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS SPECIALTY FILMS OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-EYE-81-71-082
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON) (608)-266-0244 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/21/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LAMINATOR #17		VOC	0.0400 KG/L COATING 0.3300 LB/GAL	LOW SOLVENT COATINGS	LAER
COATER #10		VOC	0.0300 KG/L COATING 0.2500 LB/GAL	LOW SOLVENT COATINGS	LAER
COATER #11		VOC	0.2100 KG/L 1.7700 LB/GAL	LOW SOLVENT COATINGS	LAER
FLEXOPRESS COATER #2		VOC	18.0000 % VOC VOL. IN INK	LOW SOLVENT COATINGS	LAER

NOTES ----------
OFFSET FROM SHUTDOWN OF #14 LAMINATOR & #2 SARAN COATER AT CURWOOD, NEW LONDON

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 102.00 GAL INK/H

COMPANY NAME/SITE LOCATION BROWN PRINTING
P.O. BOX 451 FRANKLIN, KY 42134
SIMPSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. KY 153
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/28/80
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRINTING PRESS	102.00 GAL/H INK	VOC	102.0000 GAL/H INK	CARBON ADSORPTION	LAER 97.00

NOTES ----------
CHANGING THINNER USAGE, BUT LIMITING INK TO 102 G\L INK/HOUR. 7 UNITS, BACT/LAER WILL BE DETERMINED USING A PHASED APPROCH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION COLUMBUS COATED FABRICS COLUMBUS, OH

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. 01-415
DETERMINATION MADE BY OHIO EPA - CD (AGENCY) VICTOR FISHER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/29/81
ESTIMATED DATE OF START-UP--
(614)-864-3195 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INTA-ROTO HL-41 PRINTER	7.00 MMYD/YR				
		VOC	4.8000 LB/GAL VINYL 2.9000 LB/GAL INK		BACT
				COAT COMPOSIT.<25% SOLV,BY VOL	70.00

NOTES ----------
LIMITS IMPOSED BY PERMIT TO INSTALL, WHICH ALSO REQUIRES NEW PERMIT APPLICATION IF SOLVENT COMPOSITION OR SCHEDULE ARE CHANGED
.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 360.00 T/YR

COMPANY NAME/SITE LOCATION CONTAINER CORP. OF AM MUNCIE, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(18)1477
DETERMINATION MADE BY INDIANA APCD (AGENCY) FRANK PROFIT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/31/80
ESTIMATED DATE OF START-UP--
(317)-633-0664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVERE PRINT PRESS	362.00 T/YR VOC	VOC	36.0000 T/YR	FUME INCINERATOR	90.00

NOTES ----------
OPERATES 6240 HRS/YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS 1073.30 LB/H

COMPANY NAME/SITE LOCATION CPS INDUSTRIES FRANKLIN, TN
WILLIAMSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TN-069
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) ANN NIELSON (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(615)-741-3651 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CERUTTI & HELIX PRESSES, 5	1073.30 LB/H TOTAL	VOC	128.1100 LB/H	SOLVENT REC. SYS & CARBON. BED	LAER 84.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 2400.00 T/YR

COMPANY NAME/SITE LOCATION DIVERSIFIED PRINTING
DICKSON CORAMY INDUSTRIAL PARK
BACKSON, TN 37055
DICKSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PSD-TN-069
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) ANGIE PITCOCK (AGENCY CONTACT PERSON) (615)-741-3651 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/10/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRINTING					
		VOC	2400.0000 T/YR	CARBON ADSORPTION	LAER 84.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS 2000.00 FT/MIN

COMPANY NAME/SITE LOCATION R. J. R. ARCHER,INC. WINSTON-SALEM, NC
220 E. POLO RD

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 00456-0005-P
DETERMINATION MADE BY FORSYTH COUNTY ENV. AFFAIRS (AGENCY) KEITH TART (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(919)-727-8060 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRESS	2630.00 LB/H PAPER	VOC	341.0000 LB/H	CARBON ADSORB. SYS & RECOVERY SYS	69.00

NOTES ----------
LOCAL PERMIT TO CONSTRUCT WAS NOT ISSUED. R.J.R. ARCHER, INC. REQUESTED TERMINATION OF PSD EVALUATION BECAUSE THEY CONTROLLED THE MAJORITY OF THE EXISTING PLANT AND THE OFFSET GENERATED WOULD ELIMINATE THE REQUIREMENTS OF A PSD ANALYSIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 3368.00 T/YR EA

COMPANY NAME/SITE LOCATION R.R. DONNELLEY & SONS CO. MATTOON, IL

COLES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-17
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/18/80
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRESSES, 2 EA	3368.00 T/YR				
		VOC	212.0000 T/YR	CARBON ABSORBER	95.00

NOTES ----------
OPERATING HOURS MAX. 7280 HRS/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION WORLD COLOR PRESS SALEM, IL
MARION COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C 80 10 0006
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/13/82
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRESSES		VOC	336.0000 T/YR	CARBON ADSORPTION SYSTEM	94.00
OFFSET PRESSES		VOC	251.0000 T/YR	AFTERBURNER SYSTEM OR EQUIVALENT SYSTEM	90.00

NOTES ----------
1.BACT RETROSPECTIVELY APPLIED WHEN PSD PROJECT BROUGHT TO LIGHT BY APPLICANT. 2.EFFECTIVENESS OF AFTERBURNERS FOR OFFSET PRESSES IS BEING INVESTIGATED WITH TRIAL PROGRAM ON ONE PRESS TO BE CONCLUDED 9/84. EVALUATING ADD ON CONTROLS VS. REDUCTIONS ACHIEVED THROUGH REFORMULATION OF INK AND FOUNTAIN SOLUTION. LIMITS WILL BE ADJUSTED ACCORDINGLY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 120.00 MMBTU/H

COMPANY NAME/SITE LOCATION W.F. HALL PRINTING CO.
4310 EVANS TO LOCK RD EVANS, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 2754-036-8480
DETERMINATION MADE BY GEORGIA EPD (AGENCY) BILL FARRISEE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/04/82
ESTIMATED DATE OF START-UP-- 1981
(404)-656-4867 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	60.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	BOILER DESIGN	NSPS
		SO2	246.0000 LB/H		NSPS
			0.8000 LB/MMBTU	BOILER DESIGN	
CARBON BED ADSORPTION UNIT	513.00 LB/H VOC				
		VOC	39.0000 LB/H	CARBON ADSORPTION SYSTEM	LAER
		CO			95.00
		NO2	0.3000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
PERMIT AMMENDED TO COVER TWO BOILERS INSTEAD OF THREE BOILERS IN ORIGINAL PERMIT AND TO COVER USE OF NO.6 FUEL (2.1% SULFUR) I NSTEAD OF NO.6 FUEL (.9% SULFUR) IN ORIGINAL PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS 300.00 GAL TOPCOAT/D

COMPANY NAME/SITE LOCATION BROYHILL FURNITURE NEWTON, NC CATAWBA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NC-035
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(919)-733-6126 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY BOOTHS		VOC	688.0000 T/YR	NONE EQUIPMENT DESIGN & OPERATION	BACT

NOTES ----------
11 SPRAY BOOTHS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION MEREDITH CORP. DES MOINES, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/15/82
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRINTING PRESS	1614.00 LB/H SOLVENT	VOC	16.0000 % VOL SOLVENT USED		
FLEXOGRAPHIC PRINTER				SOLVENT RECOVERY SYSTEM	95.00

NOTES ----------
THE FLEXOGRAPHIC PRINTER SHALL NOT USE A RAW INK (OR RELATED COATING) WITH A RATIO OF VOC VOLUME CONTENT TO SOLIDS VOLUME CONT
ENT WHICH IS GREATER THAN 0.64 NOR SHALL RAW INK BE DILUTED WITH ANYTHING OTHER THAN WATER ADDITION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION ROCKWELL INTERNATIONAL TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. T80-43
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) BILL GIBBONS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/08/80
ESTIMATED DATE OF START-UP-- 1981
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CHEM MASKANT ON ACFT SKINS	NOTE #1	VOC	202.0000 T/YR UNCONT.,NOTE#2	CARBON ADSORPTION	90.00
BOND PRIME, PRIME & ENAMEL COAT*	NOTE #1	VOC	18.4000 T/YR UNCONT.,NOTE#2 3.4000 T/YR CONT.,NOTE#2	CARBON ADSORPTION UNITS	80.00

NOTES ----------
1) MASKANT & COATINGS RELATED TO COMMERCIAL AIRCRAFT BODY SECTION PRODUCTION, PERMIT LIMITS PRODUCTION TO 144 SHIP SETS PER YEAR.
2) BATCH TYPE COATINGS OPERATIONS NEGATES MEANINGFUL HOURLY EMISSION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION SOLVENT RESOURCE RECOVERY WEST CARROLLTON, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0857751346 P004
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY) AMY WRIGHT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/07/82
ESTIMATED DATE OF START-UP-- 1982
(513)-225-4435 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DISTILLATION UNIT	300000.00 GAL/YR				
		VOC	1.2700 LB/D		
			0.1600 T/YR		
				CONDENSORS	99.99

NOTES ----------
DISTILLATION UNIT IS OPERATED WITH CONDENSORS WHICH ARE 150% OF DESIGN CAPACITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETR. REFINING/OIL & GAS PROD./RELATED INDUSTRY 24.00 MMCF

COMPANY NAME/SITE LOCATION EXXON CO NEW ORLEANS, MS
P. O. BOX 60626 HINDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 03/04/81
PERMIT NO. MS 030 ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON) (601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TEST WELL	25.00 MMCF/D				
		SO2	745.0000 T/D 30 D MAX	FLARE	99.00

NOTES ----------
TEST FACILITY -- EXPECTED LIFE 120 DAYS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - SEPARATION 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION ARCO PETROLEUM PROD. CO. CARSON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) LA-78-17
DETERMINATION MADE BY EPA REGION IX (AGENCY) RICK SUGAREK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/06/79
ESTIMATED DATE OF START-UP--
(415)-974-8058 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DISTILL. UNIT, REPLACEMENT CRUDE	450.00 MMBTU/H HEA*	SO2	800.0000 PPM S REFIN. GAS 0.2500 %S-FUEL OIL	SULFUR-IN-FUEL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - SEPARATION

COMPANY NAME/SITE LOCATION GULF STATES OIL & REFINING CO. CORPUS CHRISTI, TX
NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8452
DATE OF PERMIT ISSUANCE-- 12/04/80
ESTIMATED DATE OF START-UP-- 1981

DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4	109.00 MMBTU/H				
		SO2	32.9000 T/YR	NONE - LOW SULFUR FUELS	BACT
		NOX	19.5000 T/YR		AP42
FUGITIVES					
		VOC	3.1000 T/YR	MONITORING & MAINTENANCE	BACT 75.00
VAC. COLUMN EJECTOR	16000.00 B/D FEED				
		VOC		NONE	
				VAPORS TO FUEL SYSTEM	100.00

NOTES ----------
VACUUM COLUMN VAPORS ROUTED TO FUEL SYSTEM, STEAM CONDENSATE TO DESALTER. CONSIDERED AS A CLOSED SYSTEM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - SEPARATION 400.00 MMBTU/H

COMPANY NAME/SITE LOCATION THE DOW CHEMICAL CO. FREEPORT, TX BRAZORIA COUNTY

DETERMINATION IS BACT
PERMIT NO. (REGION FILE NO.) PSD-TX-405
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 VACUUM DISTALL. UNITS, GAS	200.00 MMBTU/H EA				
		SO2	0.0270 LB/MMBTU	LIMIT H2S TO 0.10 GR/DSCF	NSPS
		NOX	0.1200 LB/MMBTU	COM. AIR CONT. BY BURN. DESIGN	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 55000.00 BBL/D

COMPANY NAME/SITE LOCATION ASHLAND OIL, INC. LEACH, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-82-127
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/21/82
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, PACKAGED, OIL/GAS	69.00 MMBTU/H				
		PM	17.0000 T/YR		
		SO2	345.0000 T/YR		
FCC REGEN. AFTER BURNER	327.00 MMBTU/H				
		PM	287.0000 T/YR		
				CENTRIFUGAL CYCLONE	81.30
		CO	6027.0000 T/YR		
				DIRECT FLAME AB	95.90
		SO2	673.0000 T/YR		
HEATER, GAS	27.00 MMBTU/H				
		PM	9.0000 T/YR		
		CO	3.0000 T/YR		
FCC CHARGING HEATER AFTERBURNER	145.00 MMBTU/H				
		PM	96.0000 T/YR		
				CENTRIFUGAL CYCLONE	85.00
		CO	240.0000 T/YR		
				DIR. FLAME AFTERBURNER	99.50
		SO2	9.0000 T/YR		

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HF ALKY ISU	86.00 MMBTU/H				
		PM	7.0000 T/YR		
		SO2	10.0000 T/YR		
CO BOILER	800.00 MMBTU/H				
		PM	68.0000 LB/H		
			298.0000 T/YR		
				FABRIC FILTER	99.70
		CO	300.0000 PPM		
			2234.0000 T/YR		
				AFTER BURNER	98.70
		SO2	250.0000 PPM		
			4260.0000 T/YR		
				DRY LIME INJ.	92.90
		NO2	0.2000 LB/MMBTU		
			713.0000 T/YR		
		VOC	65.0000 T/YR		
				PROCESS CHANGE	66.20

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO. WILMINGTON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. LA-79-05
DETERMINATION MADE BY EPA REGION IX (AGENCY) LARRY BOWERMAN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/24/80
ESTIMATED DATE OF START-UP--
(415)-974-8213 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC UNIT	30000.00 BBL/D				
		SO2	84.0000 LB/H 2H AV		
			56.0000 LB/H 24H AV		
				SULFUR SCAVENGING ZEOLITE CATALYST	
				DESULFURIZATION OF FEED TO 0.2% S	
ALKYLATION UNIT, HYDROFLUORIC A*	8500.00 BBL/D				
		SO2	230.0000 MG/DSCM H2S		
			0.1000 GR/DSCF		
				SULFUR IN FUEL	
CATALYTIC POLYMERIZATION UNIT	3500.00 BBL/D				
		SO2	230.0000 MG/DSCM H2S		
			0.1000 GR/DSCF		
				SULFUR IN FUEL	

NOTES ----------
0.2% S FEED. -- FLUIDIZED CATALYTIC CRACKING UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 22.50 MBBL/D

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
UP RIVER ROAD/SOUTHERN CORPUS CHRISTI, TX
NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-408
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/13/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATER	278.00 MMBTU/H				
		NOX	0.1800 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0290 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, KEROSENE HYDROTREATER C*	24.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0330 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, KEROSENE HYDROTREATER R*	25.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0320 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, MIXED DIST. HYDROTREATE*	49.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0310 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 45.00 MBPSD

COMPANY NAME/SITE LOCATION EXXON CO., USA/BAYWAY REFIN.
1400 PARK AVENUE
LINDEN, NJ 07036
UNION COUNTY

DETERMINATION IS B/L
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/27/80
ESTIMATED DATE OF START-UP--
(212)-264-9538 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATER		VOC	5.1000 T/YR	O2 ANALYZER/EFFICIENT COMBUSTION	LAER
		NOX	1663.0000 T/YR	CONVENTIONAL BURNERS	BACT
		SO2	195.4000 T/YR	SCRUBBER & SULFUR PLANT .1 GR/DSCF H2S-FLUEGAS/.5% S BY WT. FUEL OIL	BACT
HYDROFINER POWER FORMER		VOC	2.5000 T/YR	FURNACE BURNER	LAER
		SO2	4416.6000 T/YR	3 CLAUS & 1 PARSON BEAVON UNITS	BACT
TANKAGE		VOC	4.1000 T/YR	EXT. FLOATING ROOF + DOUBLE SEAL EXT. FLOAT. ROOF & 2 SEALS	LAER
FUGITIVE EMISSIONS		VOC	203.0000 T/YR	PROPER COMBUSTION PROPER MAINTENANCE	LAER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

NOTES ----------
A NEW 45 MB/SD CATALYTIC REFORMING UNIT (POWER FORMER) WILL UPGRADE OCTANE LEVELS OF VIRGIN AND ICN NAPHTHAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 5.00 HP

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27769
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JIM KARAS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/19/82
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CENTRIFUGAL PUMPS	5.00 HP	VOC	500.0000 PPM	DOUBLE MECH. SEAL W/HEAVY SEAL OIL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 20000.00 MBBL/D

COMPANY NAME/SITE LOCATION UNITED REFINING CO. WARREN, PA

WARREN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.
PERMIT NO. 78PA14
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/80
ESTIMATED DATE OF START-UP-- 1980
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC UNIT					
REFORMER HEATER		SO2	350.0000 LB/H	0.65% S FUEL OIL	BACT
CLAUS PLANT		SO2	65.0000 LB/H	1% S IN FUEL OIL	BACT
REBOILER		SO2			BACT
		SO2	24.0000 LB/H	1% S FUEL OIL	NSPS

NOTES ----------
SO2 EMISSIONS FROM FLUID CATALYTIC CRACKER UNIT, REFORMER HEATER, AND REBOILER IMPACT ON NON-ATTAINMENT AREA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION ENDEVCO, INC.
ST. HWY 134 FOUKE, AR
MILLER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AR-240M-1
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIETHANOLAMINE RECONCENTRATOR	60000.00 BTU/H				
		SO2	0.1000 LB/H	FIRING OF NAT GAS	BACT
TRIETHYLENE GLYCOL	60000.00 BTU/H				
		SO2	0.1000 LB/H	FIRING OF NAT. GAS	BACT
INCIN.					
		SO2	460.0000 LB/H	NO CONTROL,USED TO CONTROL H2S	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING 2.00 MMSCFD

COMPANY NAME/SITE LOCATION OIL INTERNATIONAL LTD OILMONT, MT

TOOLE COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY STATE OF MONTANA (AGENCY) HARRY KELTZ (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/10/83
ESTIMATED DATE OF START-UP--
(406)-449-3454 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR	2.00 MMSCFD				
		SO2	57.0000 LB/H 249.0000 T/YR	INCINERATION	BACT 0.00

NOTES ----------
50 WEEK/YR OPERATION - PLANT IS IN BASICALLY SAME LOCATION AS OLD PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK 10.80 MMGAL

COMPANY NAME/SITE LOCATION AMOCO OIL CO. WHITING, IN

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PC (45) 1479
DETERMINATION MADE BY INDIANA APCD (AGENCY) KEN KEARNEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/27/81
ESTIMATED DATE OF START-UP--
(317)-633-0647 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS, GASOLINE	5.40 MMGAL	VOC	WELDED TANKS & INT FLOAT ROOFS	LAER

NOTES ----------
2 GASOLINE STORAGE TANKS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION ARCO PIPELINE CO.
FT. MIFFLIN TERMINAL
TINICUM TOWNSHIP, PA
DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79PA24
DETERMINATION MADE BY EPA REGION III (AGENCY)
BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/18/80
ESTIMATED DATE OF START-UP-- 1981
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS NO. 1	10.00 MBBL	VOC	0.2700 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 2, 13, 15	100.00 MBBL	VOC	1.6500 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 4, 12	150.00 MBBL	VOC	2.1600 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 9, 10	100.00 MBBL	VOC	1.3200 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 11, 14	100.00 MBBL	VOC	1.6100 LB/H	INTERNAL FLOATING ROOFS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION VENTECH REFIN.
JCT. HWY 190 & RT. 105
KROTZ SPRINGS, LA 70750
ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-278A
DETERMINATION MADE BY EPA REGION VI (AGENCY)
TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/13/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TANKS, 2EA	120000.00 BBL	VOC	0.8700 LB/H	DOUBLE SEALS	BACT
TANKS, 6EA	55000.00 BBL	VOC	0.0200 LB/H	DOUBLE SEALS	BACT
TANK	25000.00 BBL	VOC	0.3500 LB/H	DOUBLE SEALS	BACT
BARGE LOAD/UNLOAD		VOC	3.0200 LB/H	VAPOR COLLECTION & INCIN. SYS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION ALLIED MATERIALS CORP.
RT. 66
STROUD, OK
LINCOLN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-344
DETERMINATION MADE BY EPA REGION VI (AGENCY)
BILL TAYLOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/30/81
ESTIMATED DATE OF START-UP-- 1981
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WASTE INCINERATOR/HEAT RECOVERY*	56.00 MMBTU/H	SO2	4.4300 LB/MMBTU	NONE APPLICABLE	BACT

NOTES ----------
WASTE INCIN./HEAT RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 130.00 MBPSD

COMPANY NAME/SITE LOCATION AMOCO
5TH AVE. S. TEXAS CITY TEXAS CITY, TX
GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-402
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 12 EA	144.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		SO2	0.0300 LB/MMBTU	GAS FIRED	NSPS
SULFUR RECOVERY UNIT	1000.00 LT/D SULFUR				
		NOX	13.0000 LB/H	EFFICIENT OPERATION	BACT
		SO2	250.0000 PPM	3-STAGE CLAUS UNIT	NSPS 99.90
SRU FLARE	8.80 MMBTU/H				
		NOX	0.1200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MMBTU	GAS FIRED	NSPS
HYDROTREATER FLARES, 2	6.10 MMBTU/H EA				
		NOX	0.1200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MMBTU	GAS FIRED	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

H2S LIMITED TO 0.1 GRAIN/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50000.00 BPSD

COMPANY NAME/SITE LOCATION AMOCO TEXAS REFINING CO. 2401 5TH AVENUE SOUTH TEXAS CITY, TX 77590

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-101
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN DUNYAK (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE
ESTIMATED DATE OF START UP
(214) 767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
FURNACE, EXISTING PREHEAT		NOX	56.2000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	63.2000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	76.5000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING HOT OIL		NOX	47.9000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, NEW DESULFURIZING		NOX	21.2000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT

NOTES ----------
MODIFIED GASOLINE REFORMER TO PRODUCE GASOLINE OF LOW LEAD CONTENT. INCREASED REFORMER CHARGE RATE FROM 47000 TO 50000 BBL/STR EAM DAY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 250.00 MMSCFD SOURGAS

COMPANY NAME/SITE LOCATION AMOCO, CAVE CREEK NEAR WAHSATCH, UT
SUMMIT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/20/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SO2 RECOVERY PLANT					
		SO2	825.0000 PPM 794.0000 LB/H		BACT
				SCOT TAILGAS	99.70
		NOX	67.5000 T/YR		BACT
3 BOILERS	195.00 MMBTU/H				
		NOX	145.9000 T/YR	DESIGN, LOW NOX BURNERS	BACT
		VE	20.0000 % OPACITY		
GLYCOL REBOILER	4.10 MMBTU/H				
		NOX	2.1000 T/YR	DESIGN, LOW NOX BURNERS	BACT
		VE	20.0000 % OPACITY		
REG GAS HEATER	7.30 MMBTU/H				
		NOX	3.6000 T/YR	DESIGN, LOW NOX BURNERS	BACT
		VE	20.0000 % OPACITY		
STAB REBOILER	18.50 MMBTU/H				
		NOX	9.2000 T/YR	DESIGN, LOW NOX BURNERS	BACT
		VE	20.0000 % OPACITY		

(CONTINUED) AMOCO, CAVE CREEK

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
8 HEATERS	1.30 MMBTU/H	NOX	0.7000 T/YR	DESIGN, LOW NOX BURNERS	BACT
		VE	20.0000 % OPACITY		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CALCASIEU REFIN. LAKE CHARLES, LA
CALASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-293
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/22/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 3 EA	160.00 MMBTU/H				
		NOX	0.1100 LB/MMBTU	LOW NOX BURNERS	BACT 35.00
INCIN.	2.00 MMBTU/H				
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT 35.00

NOTES ----------
THREE HEATERS AND ONE INCINERATOR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION CAROLINA REFINING & DIST SAVANAH, GA
STATE HWY 21 CHATHAM COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/10/80
PERMIT NO. GA 063 ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY GEORGIA EPD (AGENCY) BILL MITCHELL (AGENCY CONTACT PERSON) (404)-656-6900 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS	584.00 MMBTU/H				
		SO2			NSPS
				CLAUS-STRETFORD	98.00
		NOX	518.1000 T/YR		BACT
				GOOD OPERATION PRACTICES	
		VOC	3326.2000 T/YR		BACT
				GOOD OPERATION PRACTICES	

NOTES ----------
OPERATION PROHIBITED BY STATE AUTHORITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
1200 SMITH ST., SUITE 1900
HOUSTON, TX 77002
NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-337
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PLATFORM CHARGE HEATERS, 3	392.00 MMBTU/H				
		SO2	9.9000 LB/H	REFIN. GAS	NSPS
			0.0250 LB/MMBTU	REFIN. GAS	
				TRACE H2S	
		NOX	47.0000 LB/H	REFIN. GAS	BACT
			0.1200 LB/MMBTU	REFIN. GAS	
				AFR CONTROL, LNB	
		SO2	112.7000 LB/H	G/O	NSPS
			0.7600 LB/MMBTU	G/O	
				TRACE H2S	
		NOX	67.3000 LB/H	G/O	BACT
			0.1700 LB/MMBTU	G/O	
				AFR CONTROLS, LNB	
HEATER, PLATFORMER DEPENTANIZER	25.20 MMTBU/H				
		SO2	0.6000 LB/H	REFIN. GAS	NSPS
			0.0250 LB/MMBTU	REFIN. GAS	
				TRACE H2S	
		NOX	3.0000 LB/H	REFIN. GAS	
			0.1200 LB/MMBTU	REFIN. GAS	
		SO2	17.5000 LB/H	G/O	NSPS
			0.7600 LB/MMBTU	G/O	
				TRACE H2S	
		NOX	4.4000 LB/H	G/O	BACT

0.1700 LB/MMBTU G/O
AFR CONTROLS, LNB

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORM AROMATIC	20.30 MMBTU/H				
		SO2	0.5000 LB/H 0.0250 LB/MMBTU	REFIN. GAS REFIN. GAS TRACE H2S	NSPS
		NOX	2.4000 LB/H 0.1200 LB/MMBTU	REFIN. GAS REFIN. GAS AFR CONTROL, LNB	BACT
		SO2	13.8000 LB/H 0.7600 LB/MMBTU	G/O G/O TRACE H2S	NSPS
		NOX	3.5000 LB/H 0.1700 LB/MMBTU	G/O G/O AFR CONTROL, LNB	BACT
HEATER, HYDROTREATER CHARGE	47.60 MMBTU/H				
		SO2	1.2000 LB/H 0.0250 LB/MMBTU	REFIN. GAS REFIN. GAS TRACE H2S	NSPS
		NOX	5.7000 LB/H 0.1200 LB/MMBTU	REFIN. GAS REFIN. GAS AFR CONTROL, LNB	BACT
		SO2	33.0000 LB/H 0.7600 LB/MMBTU	G/O G/O TRACE H2S	NSPS
		NOX	8.2000 LB/H 0.1700 LB/MMBTU	G/O G/O AFR CONTROL, LNB	BACT
REBOILER, HYDROTREATER STRIPPER	31.40 MMBTU/H				
		SO2	0.8000 LB/H 0.0250 LB/MMBTU	REFIN. GAS REFIN. GAS TRACE H2S	NSPS
		NOX	3.8000 LB/H 0.1200 LB/MMBTU	REFIN. GAS REFIN. GAS AFR CONTROLS, LNB	BACT
		SO2	2.2000 LB/H 0.7600 LB/MMBTU	G/O G/O TRACE H2S	NSPS
		NOX	5.4000 LB/H 0.1700 LB/MMBTU	G/O G/O AFR CONTROLS, LNB	BACT

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 3 (FUEL GAS ONLY)	47.00 MMBTU/H EA				
		SO2	1.2000 LB/H 0.0250 LB/MMBTU	TRACE H2S	NSPS
		NOX	5.6000 LB/H 0.1200 LB/MMBTU	AFR CONTROL, LNB	BACT
EMERGENCY FLARE	16.00 SCFM				
		SO2	0.1000 LB/H	NONE	BACT
		NOX	0.1000 LB/H	STEAM INJECTION	BACT

NOTES ----------
FUEL OIL S CONTENT NOT SPECIFIED. PERMITTIE IS REQUIRED TO SAMPLE & ANALYZE S CONTENT OF FUEL OIL AT LEAST ONCE/DAY TO DETERMI NE COMPLIANCE WITH THE ALLOWABLE SO2 EMISSION LIMITS. EMERGENCY FLARE OPERATED ONLY UNDER EMERGENCY CONDITIONS. WHEN PROCESS GASES ARE VENTED TO FLARE FOR MORE THAN 5 MIN. IN ANY 2 HOUR PERIOD, RECORDS SHALL BE KEPT FOR 2 YEARS FOLLOWING SUCH OCCURANCE. TRACE = <0.10 GR/DSCF. LNB = LOW NOX BURNERS. AFR CONTROLS =AIR/FUEL RATIO CONTROLS. G/O = GAS/OIL MIX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 7000.00 GPCD

COMPANY NAME/SITE LOCATION CHEVRON USA REF. BASCAGOULA, MS
JACKSON COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. MS 024
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/10/80
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS EQUIPMENT	16000.00 GPCD				
		SO2	0.1000 GR/DSCF	BEAVON S REM. PROC. TAIL GAS LOW SULFUR	NSPS
		NOX	125.0000 PPM GAS	DESIGN	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27797
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JOHN SWANSON (AGENCY CONTACT PERSON) (415)-771-6000 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/08/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE 4	57.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURANCE #5	18.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURANCE #6	15.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURANCE #1	12.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURANCE #2	19.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURANCE #3	66.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURNACES 1,2,3	

(CONTINUED) CHEVRON USA, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURANCE #7	22.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURANCE #8	28.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURANCE #9	26.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURANCE #10	15.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3%O2 ONE SCR UNIT ON FURN. 7,8,9,10	

NOTES ----------
SCR = SELECTIVE CATALYTIC REDUCTION, FURNACES ARE BURNING REFINERY MAKE GAS OF 1025 BTU/ACF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CITIES SERVICE CO.
P.O. BOX 1562
LAKE CHARLES, LA 70602

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/18/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMER FURNACE, B-501,502,506*	198.50 MMBTU/H	NOX	0.0030 LB/MMBTU 37.6000 LB/H	LOW NOX BURNERS & LEA FIRING	BACT
		VOC	0.0030 LB/MMBTU 0.6000 LB/H	COM. CONT. F. G. O2 METER	BACT
REFORMER FURNACE, B-503,504,505*	536.90 MMBTU/H	NOX	0.1900 LB/MMBTU 101.7000 LB/H	LOW NOX BURNERS	BACT
		VOC	0.0030 LB/MMBTU 1.5000 LB/H	COM. CONT. F.G. O2 METER	BACT
C REFORMER, REGEN. VENT		NOX		NONE	
		VOC			
A REFORMER FURNACE, B-102 - 106	93.10 MMBTU/H GAS	VOC	0.9000 LB/H 0.0100 MMBTU/H	NONE	BACT
		NOX	34.5000 LB/H		BACT

0.0400 LB/MMBTU
NONE

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
A REFORMER FURNACE, B-201	64.80 MMBTU/H				
		NOX	14.2000 LB/H		BACT
			0.0003 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
A REFORMER FURNACE, B-202	53.00 MMBTU/H				
		NOX	11.6000 LB/H		BACT
			0.0003 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
B REFORMER FURNACE, B-401	60.40 MMBTU/H				
		NOX	13.2000 LB/H		BACT
			0.0003 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
B REFORMER FURNACE, B-406	57.30 MMBTU/H				
		NOX	12.6000 LB/H		BACT
			0.0003 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
B REFORMER FURNACE, B-402	55.90 MMBTU/H				
		NOX	12.2000 LB/H		BACT
			0.0003 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
B REFORMER FURNACE, B-403,404,4*	330.00 MMBTU/H				
		NOX	50.8000 LB/H 0.2200 LB/MMBTU	NONE	BACT
		VOC	2.3000 LB/H 0.0030 LB/MMBTU	NONE	BACT
COKER FURNACE, B-101	108.20 MMBTU/H				
		NOX	23.7000 LB/H 0.0030 LB/MMBTU	NONE	BACT
		VOC	0.3000 LB/H 0.0030 LB/MMBTU	NONE	BACT
COKER FURNACES, B-201	82.40 MMBTU/H				
		NOX	18.0000 LB/H 0.2200 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT
TOPPER FURNACE, B-2C	65.90 MMBTU/H				
		NOX	14.4000 LB/H 0.2200 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT
POWER HOUSE BOILER, B-3, B-3B	173.00 MMBTU/H GAS				
		NOX	60.5000 LB/H 0.0050 LB/MMBTU	NONE	BACT
		VOC	0.9000 LB/H 0.0050 LB/MMBTU	NONE	BACT

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER HOUSE BOILER, B-A3,3C	173.00 MMBTU/H				
		NOX	60.5000 LB/H		BACT
			0.3500 LB/MMBTU		
				NONE	
		VOC	0.9000 LB/H		BACT
			0.0050 LB/MMBTU		
				NONE	
TANKAGE					
		VOC	581.7000 LB/H		BACT
				BACT FOR FUGITIVE HC	
REFINERY, MSC. SOURCES					
		VOC	291.0000 LB/H		BACT
				BACT FOR FUGITIVE HC	
COMPLEX COOLING TOWERS					
		VOC	234.4000 LB/H		BACT
				BACT FOR FUGITIVE HC	

NOTES -------- --
REFINERY MODIFICATIONS INCLUDE: INSTALLATION OF NEW "C" REFORMER, REVISION OFREFINERY FUEL BALANCE, INSTALLATION OF AIR PREHEA
T AND FLUE GAS WASTE HEAT BOILERS FOR EMERGENCY CONSERVATION, CRUDE DISTILLATION COLUMN MODIFICATION,
AND CONVERSION OF CONE ROOF TANKS TO INTERNAL FLOATING PANS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL CO., WOOD RIVER REFIN. HARTFORD, IL 62048
P.O. BOX 7
MADISON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81060081
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/25/81
ESTIMATED DATE OF START-UP--
(217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS		NOX	389.3000 T/YR	LOW NOX BURNERS	
		SO2	1.0000 LB/MMBTU	BURNING BYPRODUCT GAS WITH OIL	
		PM	92.9000 T/YR		
		CO	55.5000 T/YR		
STORAGE TANKS		VOC	70.2000 T/YR		

NOTES ----------
NOX EMISSION LIMIT ON PROCESS HEATERS WILL BE SPECIFIED UPON SUBMISSION OF DETAILED ENGINEERING SPECIFICATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 225.00 MBPSD

COMPANY NAME/SITE LOCATION COASTAL STATES PETROLEUM CORPUS CHRISTI, TX 78043
P.O. DRAWER 521 NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 10/14/80
PERMIT NO. TX-243 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCIN.	15.70 MMBTU/H				
		NOX	2.3000 LB/H		BACT
			0.1500 LB/MMBTU		
				LEA FIRING	
		CO	0.3000 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, COKER CHARGE	113.00 MMBTU/H				
		NOX	13.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	2.0400 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, FCCU FEED	65.00 MMBTU/H				
		NOX	7.8000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	1.1700 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, ISOSTRIPPER	89.00 MMBTU/H				
		NOX	10.7000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
GAS OIL HDS HEATER	73.00 MMBTU/H				
		NOX	8.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.3100 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
REBOILER- GAS OIL HDS	36.00 MMBTU/H				
		NOX	4.3000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.6500 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
REBOILER, CRUDE UNIT	55.00 MMBTU/H				
		NOX	6.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.9900 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
HEATER, VACUUM CHARGE	51.00 MMBTU/H				
		NOX	5.4000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.9200 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE CHARGE	45.00 MMBTU/H				
		NOX	5.4000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.8100 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, TAIL GAS UNIT	6.30 MMBTU/H				
		NOX	0.8000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.1100 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, REFORMER	123.00 MMBTU/H				
		NOX	14.8000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	2.2200 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, NAPTHA HDS	35.00 MMBTU/H				
		NOX	4.2000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.6300 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, KEROSENE HDS	16.30 MMBTU/H				
		NOX	2.0000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.2900 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, KEROSENE HDS	12.50 MMBTU/H				
		NOX	1.5000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.2300 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
HEATER, DIESEL HDS	9.10 MMBTU/H				
		NOX	1.1000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.1600 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
REBOILER, DESIEL HDS	10.30 MMBTU/H				
		NOX	1.2000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.1800 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
BOILER, UTILITY	88.00 MMBTU/H				
		NOX	10.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
BOILER, UTILITY	88.00 MMBTU/H				
		NOX	10.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REGENERATOR, FCCU		NOX	160.0000 LB/H	NONE	BACT
		CO	103.9000 LB/H	HIGH TEMP. REGENERATION	BACT

NOTES ----------
CAPACITY INCREASE FROM 185 TO 225 MBPSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 12000.00 BPSD

COMPANY NAME/SITE LOCATION CONOCO, INC.
LAKE CHARLES REFIN. WESTLAKE, LA
CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-419
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BENHAM (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP-- 1982
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HDS CHARGE	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
REBOILER, HDS STRIPPER	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, REFORMER CHARGE	52.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERPASS	46.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERPASS	37.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT

(CONTINUED) CONOCO, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
REBOILER, DEPROPANIZER	32.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 100000.00 BBL/D

COMPANY NAME/SITE LOCATION CONOCO, INC.
LAKE CHARLES REFIN. WESTLAKE, LA
CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-390
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/10/81
ESTIMATED DATE OF START-UP-- 1983
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATERS, 2 DELAYED REG.	99.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNER LOW EXCESS AIR	BACT
HEATER, CRACKED DISTIL HYDRO DE*	16.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNER LOW EXCESS AIR	BACT
HEATER, HEAVY VACUUM GAS OIL HY*	15.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNER LOW EXCESS AIR	BACT
INCIN., SULFUR RECOVERY PLANT	9.68 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNER LOW EXCESS AIR	BACT

NOTES ----------
4 FUEL GAS-HEATERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 48000.00 BBL/D

COMPANY NAME/SITE LOCATION CRA,INC. COFFEYVILLE, KS

MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/04/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, UNIT 40 (RETROFIT)	51.00 MMBTU/H	NOX	0.1300 LB/MMBTU	LOW NOX BURNERS	BACT
HEATER, UNIT 41 (BUILT, BUT NOT*	32.00 MMBTU/H	NOX	0.1500 LB/MMBTU		BACT
HEATER, UNIT 42 (RELOCATE)	136.00 MMBTU/H	NOX	0.1600 LB/MMBTU	CONVENT. BURN W/AIR PREHEAT	BACT
HEATER, UNIT 43 (RELOCATE)	27.60 MMBTU/H	NOX	0.1300 LB/MMBTU	LOW NOX BURNERS	BACT
HEATER, UNIT 44 (NEW)	21.70 MMBTU/H	NOX	0.1300 LB/MMBTU	LOW NOX BURNERS	BACT
HEATER, UNIT 45 (NEW)	62.20 MMBTU/H	NOX	0.1300 LB/MMBTU	LOW NOX BURNERS	BACT

NOTES ----------
LIMITS FOR UNITS 42 & 43 WERE AMMENDED FROM 0.15 LB/MMBTU ON JULY 6, 1981. SIZE IS REFINERY CAPACITY. UNITS 41 & 42 EQUIPPTED WITH CONVENTIONAL BURNERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 60000.00 BBL/D

COMPANY NAME/SITE LOCATION DIAMOND SHAMROCK CORP.
P.O. BOX 631 AMERILLO, TX 77173
MOORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-346
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/04/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS BOILER, 2	240.00 MMBTU/H				
		SO2	103.8700 LB/H	SCRUB FUEL G./.7% S FUEL OIL	B/N
		NOX	130.0000 LB/H	LOW NOX BURNERS	BACT
		CO	6.8100 LB/H	EFFICIENT COMBUSTION	BACT
		PM	10.0600 LB/H	SCRUB FUEL G./.7% FUEL OIL	BACT
FCCU REGEN STACK, 2	45000.00 BBL/D				
		SO2	931.5000 LB/H	NONE	BACT
		NOX	24.4000 LB/H	HIGH TEMP REGENERATION	BACT
		CO	195.0000 LB/H	HIGH TEMP RENERATION	BACT
		PM	22.7000 LB/H	ESP	BACT 98.80

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION EXXON CHEMICAL AMERICAS BAYTOWN, TX 77520 HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-302
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP-- 1984
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPAC_TY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, NAT. GAS-FIRED, 3 EA	275.00 MMBTU/H	NOX	0.2300 LB/MMBTU	CONTROL OF EXCESS OXYGEN	BACT

NOTES ----------
EPA ORIGINALLY SPECIFIED 0.12 LB/MMBTU AS BACT, BUT EXXON PROVIDED INFORMATION ON THE HEATER DESIGN AND TEST DATA ON SIMILIAR HEATERS TO JUSTIFY THE NEED FOR0.23 LB/MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION FRIENDSWOOD REFIN. CHOATE ROAD HOUSTON, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-387
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 06/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4	75.00 MMBTU/H				
		PM	0.0042 LB/MMBTU	GAS FIRED	BACT
		SO2	0.0224 LB/MMBTU	REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMBTU	EFFICIENT COMBUSTION	BACT
BOILER	40.00 MMBTU/H				
		PM	0.0042 LB/MMBTU	GAS FIRED	BACT
		SO2	0.0214 LB/MMBTU	REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMBTU	EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT					
		SO2	9.1500 LB/H	CLAUS PLANT	BACT 99.00

(CONTINUED) FRIENDSWOOD REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR					
		PM	24.0000 LB/H		BACT
				ESP (0.85 LB/MLB OF COKE)	
CO BOILER COMPLEX					
		SO2	48.0000 LB/H		NSPS
				SULFUR REDUCTION CAT.	75.00
		NOX	103.5000 LB/H		BACT
				NO CONTROL	
		CO	175.5000 LB/H		NSPS
				COBOILER (500PPM)	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 350.00 MMBTU/H

COMPANY NAME/SITE LOCATION GETTY OIL CO.
ROUTE 1, BOX 197-X BAKERSFIELD, CA 93308

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SJ-81-11
DETERMINATION MADE BY EPA REGION IX (AGENCY) JOE SLAMOVICH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/24/82
ESTIMATED DATE OF START-UP--
(415)-974-8235 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR, 7	240.00 BBL/D	NOX	0.1500 LB/MMBTU PER GEN.	AMMONIA INJECTION	63.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 350000.00 BPSD

COMPANY NAME/SITE LOCATION GOOD HOPE REFIN., INC. GOOD HOPE, LA 70079
P.O. BOX 126, 257 PROSPECT AV* ST. CHARLES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 05/08/81
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STRIPPER REBOILER	26.00 MMBTU/H				
		PM	0.3000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU	0.10 GRH2S/DSCF	NSPS
		NOX	3.1000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/MMBTU	COMBUSTION CONTROL	BACT
REFORMER STABILIZER	26.00 MMBTU/H				
		PM	0.3000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU	0.10 GRH2S/DSCF	NSPS
		NOX	3.1000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT

CO	0.4000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL		BACT

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRUDE HEATER	317.00 MMBTU/H				
		PM	3.4000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SO2	6.1000 LB/H 0.0190 LB/MMBTU	0.10 GRH2S/DSCF	NSPS
		NOX	38.0000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	4.5000 LB/H 0.0140 LB/MMBTU	COMBUSTION CONTROL	BACT
FCCU FURNACE	45.00 MMBTU/H				
		PM	0.5000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SO2	0.9000 LB/H 0.0190 LB/MMBTU	0.10 GRH2S/DSCF	NSPS
		NOX	5.4000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU	COMBUSTION CONTROL	BACT
FCCU FURNACE	39.00 MMBTU/H				
		PM	0.4000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SO2	0.7000 LB/H 0.0190 LB/MMBTU	0.10 GRH2S/DSCF	NSPS
		NOX	4.7000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU	COMBUSTION CONTROL	BACT

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM COLUMN FURNACE	244.00 MMBTU/H			
		PM	2.6000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	4.7000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	29.3000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	3.5000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT
DEMEX HEATER	25.00 MMBTU/H			
		PM	0.3000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	3.0000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT
VISEBREAKING FURNACE, 3 EA	40.00 MMBTU/H			
		PM	0.4000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.8000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	4.8000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR	82000.00 BBL/D				
		PM	64.9000 LB/H	THIRD-STAGE CYCLONE SEPARATOR	NSPS 95.00
		SO2	761.7000 LB/H	SULFUR REDUCTION CATALYST	BACT
		NOX	242.6000 LB/H	LEA FIRING	BACT
		CO	138.6000 LB/H	COMBUSTION CONTROL	NSPS
SULFUR PLANT INCIN.					
		SO2	12.8000 LB/H	TAIL-GAS TREATMENT (SCOT)	NSPS 98.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
20 M SE BEAUMONT H 73
PORT ARTHUR, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-214
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/13/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4 EA	425.00 MMBTU/H				
		NOX	0.3000 LB/MMBTU	AIR/FUEL RATIO	BACT
		SO2	0.5800 LB/MMBTU	LOW SULFUR FUEL (.5 % S)	NSPS
		CO	0.0370 LB/MMBTU	EFFICIENT COMBUSTION	BACT
		PM	0.0580 LB/MMBTU	EFFICIENT COMBUSTION	BACT
TREATING UNIT, SCOT TAIL GAS					
		SO2	70.4000 LB/H	DESULFURIZED FUEL	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
P.O. BOX 701
PORT AURTHER, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-342
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/21/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SOLVENT EXTRACTION UNIT #1843	122.30 MMBTU/H				
		SO2	2.0000 LB/H		NSPS
			0.0200 LB/MMBTU		
				NAT. GAS/REFIN. GAS, TRACE H2S	
		NOX	14.6700 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA CONTROLS, LNB	
LUBE VACUUM UNIT #147	124.30 MMBTU/H				
		SO2	72.3000 LB/H		NSPS
			0.6000 LB/MMBTU		
				NAT. GAS/REFIN. GAS, TRACE H2S	
		NOX	37.3000 LB/H		BACT
			0.3000 LB/MMBTU		
				LEA CONTROLS, LNB	
GULFINING UNIT #243	66.70 MMBTU/H				
		SO2	38.3000 LB/MMBTU		NSPS
			0.6000 LB/H		
				NAT. GAS/REFIN. GAS, TRACE H2S	
		NOX	20.0000 LB/H		BACT
			0.3000 LB/MMBTU		
				LEA CONTROLS, LNB	

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CATALYTIC DEWAXING UNIT #1944	20.00 MMBTU/H				
		SO2	11.6000 LB/H		NSPS
			0.6000 LB/MMBTU		
				NAT. GAS/REFIN. GAS, TRACE H2S	
		NOX	6.0000 LB/H		BACT
			0.3000 LB/MMBTU		
				LEA CONTROLS, TRACE H2S	
SULFUR RECOVERY UNIT #544	15.70 MMBTU/H				
		SO2	45.0000 LB/H		NSPS
				NAT. GAS FIRED	99.90
		NOX	1.9000 LB/H		BACT
				LEA CONTROLS, LNB	
SOLVENT DEWAXING UNIT	100.10 MMBTU/H				
		SO2	3.0000 LB/H		NSPS
			0.0300 LB/MMBTU		
				NAT. GAS/REFIN. GAS, TRACE H2S	
		NOX	67.4000 LB/H		BACT
			0.6700 LB/MMBTU		
				NONE	
SOLVENT DEWAXING UNIT #1943	35.60 MMBTU/H				
		SO2	1.1000 LB/H		NSPS
			0.0300 LB/MMBTU		
				REFIN. GAS/NAT. GAS, TRACE H2S	
		NOX	23.9000 LB/H		BACT
			0.6700 LB/MMBTU		
				NONE	
GULFINING UNIT #244	60.00 MMBTU/H				
		SO2	34.9000 LB/H		NSPS
			0.6000 LB/MMBTU		
				0.5% S IN OIL	
		NOX	18.0000 LB/H		BACT
			0.3000 LB/MMBTU		
				LEA CONTROL, LNB	

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DELAYED COKING UNIT	116.00 MMBTU/H				
		SO2	3.5000 LB/H		NSPS
			0.0200 LB/MMBTU		
				TRACE H2S	
		NOX	13.9000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, LNB	

NOTES ----------
SOLVENT DEWAXING UNIT #1943: CHANGE FUEL TYPE FROM REFINERY GAS ONLY TO REFINERY GAS/NATURAL GAS. LNB -- LOW NOX BURNERS. TRACE H2S -- <0.10 GR H2S/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HAWAIIAN INDEPEN. REFIN. EWA BEACH, HI

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) HI 81-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DENNIS BEAUREGARD (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/18/81
ESTIMATED DATE OF START-UP--
(415)-974-8236 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE OIL, #4	110.00 MMBTU/H				
		NOX	0.4000	LB/MMBTU LOW NOX BURNERS	
		SO2	60.0000	LB/MMBTU 0.5% S #6 FUEL OIL	
		PM	6.1000	LB/H 0.5% S #6 FUEL OIL	
REFORMER FURNACE, H2 GEN. PLANT	125.00 MMBTU/H				
		NOX	0.1700	LB/MMBTU LOW NOX BURNERS	
		SO2	2.4000	LB/H BURN REF GAS - 0.1 GR H2S/DSCF	
		PM	1.4000	LB/H NONE	

NOTES ----------
BACT IS DETERMINED BY TECHNOLOGY AND ECONOMICS. FACILITY EXPANSION FROM 95000 BBL/DAY TO 125000 BBL/DAY BY INSTALLATION OF A H
EATER AND HYDROGENATION PLANT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 2.00 MMSCFD

COMPANY NAME/SITE LOCATION HIGH PRAIRIE ENERGY CO. NEAR CUT BANK, MT
TOOELE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/05/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR	2.00 MMSCFD	SO2	65.0000 LB/H	INCINERATION	BACT 0.00

NOTES ----------
4 YEAR PERMIT LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 66550.00 BPSD

COMPANY NAME/SITE LOCATION HILL PETROLEUM
KROTZ SPRINGS TERMIN
KROTZ SPRINGS, LA 70750
ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI (AGENCY)
TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/10/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER	146.00 MMBTU/H	VOC	0.0020 LB/MMBTU	EFFICIENT COMBUSTION	BACT
HEATER	31.00 MMBTU/H	VOC	0.0020 LB/MMBTU	EFFICIENT COMBUSTION	BACT
TANKS, 11 EA	80000.00 BBL	VOC	2.4200 LB/H	DOUBLE SEALS	BACT
TANKS, 4 EA	100000.00 BBL	VOC	2.5800 LB/H	DOUBLE SEALS	BACT
TANKS, 2 EA	150000.00 BBL	VOC	7.3200 LB/H	DOUBLE SEALS	BACT
LOADING DOCK WASTEWATER		VOC	3.8200 LB/H	MAINTENANCE PROGRAM	BACT

(CONTINUED) HILL PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SEPARATOR		VOC	0.3100 LB/H	MAINTENANCE PROGRAM	BACT
PUMP SEALS		VOC	0.6500 LB/H	MAINTENANCE PROGRAM	BACT
VALVES & FLANGES		VOC	7.7200 LB/H	MAINTENANCE PROGRAM	BACT
RELIEF VALVES		VOC	1.2000 LB/H	MAINTENANCE PROGRAM	BACT
COMPRESSOR SEALS		VOC	0.1900 LB/H	MAINTENANCE PROGRAM	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HYDROCARBON RECYCLERS, INC. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. T81-15 & T82-101
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ATMOS. & VACUUM DISTIL. USED OI*	500000.00 GAL/YR				
		VOC	13.0000 T/YR		
				INCIN. IN OIL PREHEAT FURNACE	98.00
DISTIL. OF CHLORINATED HC	150000.00 GAL/YR				
		VOC			
				CLOSED SYS-DISTIL. UNIT & TANKAGE-2"H2O PRV	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

COMPANY NAME/SITE LOCATION INDEPENDENT REFIN. WINNIE, TX
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-388
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 6	96.50 MMBTU/H	NOX	0.1100 LB/MMBTU LOW NOX BURNERS	NSPS
REBOILER	14.40 MMBTU/H	NOX	0.1100 LB/MMBTU LOW NOX BURNERS	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION LONGVEIW REFIN.
5 KM SW POST OFFICE
LONGVIEW, TX
GREGG COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-364
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC REGENERATOR	15000.00 BBL/D				
		PM	10.6000 LB/H	ESP	BACT
		SO2	190.3000 LB/H	S REDUCTION CATAYLST	NSPS 75.00
		NOX	32.7000 LB/H	NONE	BACT
		CO	79.5000 LB/H	HIGH TEMP REGENERATION	BACT
TURBINE, 3	6275.00 HP				
		PM	0.0700 G/HP-H	REF. FUEL GAS	BACT
		SO2	0.1200 G/HP-H	REF. FUEL GAS	BACT
		NOX	1.3000 G/HP-H		BACT
		CO	0.4900 G/HP-H	EFFICIENT COMBUSTION	NSPS
HEATERS, 25	80.60 MMBTU/H				
		PM	0.0100 LB/MMBTU	FUEL GAS/LOW S OIL	BACT
		SO2	0.0270 LB/MMBTU	FUEL GAS/LOW S OIL	NSPS
		NOX	0.1200 LB/MMBTU		BACT

		LOW NOX BURNERS	
CO	0.0200	LB/MMBTU	BACT
		EFFICIENT COMBUSTION	

(CONTINUED) LONGVEIW REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	74.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	FUEL GAS	BACT
		SO2	0.0270 LB/MMBTU	FUEL GAS	BACT
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0200 LB/MMBTU	EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT	40.00 T/D				
		SO2		3 STAGE CLAUS PLANT	NSPS 99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO. ROBINSON, IL
CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C 8005034
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/01/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS	250.00 MMBTU/H				
		SO2	1.0000 LB/MMBTU	H2S FUEL LIM :0.10 GR/DSCF	
		NOX	0.3000 LB/MMBTU	LOW NOX BURNERS	
		PM	0.1000 LB/MMBTU		
HEATER	250.00 MMBTU/H				
		SO2	0.8000 LB/MMBTU		
		NOX	0.3000 LB/MMBTU	LOW NOX BURNERS	
		PM	0.1000 LB/MMBTU		

NOTES ----------
SO2 EMISSION LIMIT TO BE MET WITH REFINERY GAS, RESID. OIL, OR ANY COMBINATION. H2S IN FUEL GAS LIMITED TO 0.1 GR/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.
P.O. BOX 1191 TEXAS CITY, TX 77590
GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-241
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE	175.00 MMBTU/H				
		NOX	36.7400 LB/H N. GAS		
			0.2200 LB/MMBTU N. GAS	LOW NOX BURN./LEA FIRING	BACT
		SO2	4.3000 LB/H N. GAS		
			0.0260 LB/MMBTU N. GAS	<0.1 GR H2S/DSCF	NSPS
		NOX	52.5000 LB/H FUEL OIL		
			0.3000 LB/MMBTU FUEL OIL	LOW NOX BURN/LEA FIRING	BACT
		SO2	115.8000 LB/H FUEL OIL		
			0.6600 LB/MMBTU FUEL OIL	0.6% S FUEL OIL	NSPS

NOTES ----------
REPLACES AN EXISTING CRUDE HEATER FIRING REFINERY GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 70000.00 BBL/D

COMPANY NAME/SITE LOCATION NATIONAL COOP. REFIN. ASSOC. MCPHERSON, KS
MCPHERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/17/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATER, UNIT HF-009	64.00 MMBTU/H	NOX	0.1500 LB/MMBTU MAX	LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HF-010	64.00 MMBTU/H	NOX	0.1500 LB/MMBTU MAX	LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HP-012	32.90 MMBTU/H	NOX	0.1500 LB/MMBTU MAX	LOW EXCESS AIR	BACT

NOTES ----------
REFINERY BEING MODIFIED TO ALLOW PROCESSING OF HIGH SULFUR CRUDES (SCC PROJECT). CAPACITY TO BE INCREASED FROM 57000 TO 70000 BBL/D. SOURCE SIZE IS REFINERY CAPACITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 35.00 MBPSD

COMPANY NAME/SITE LOCATION NEDERLAND PROCESSING CO.
P.O. BOX 1567
NEDERLAND, TX 77627
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. TX-262
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/31/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM UNIT FURNACE	150.00 MMBTU/H				
		PM	7.9000 LB/H OIL 0.0530 LB/MMBTU OIL	LIQUID OR GASEOUS FUEL	BACT
		SO2	70.0000 LB/H OIL 0.4670 LB/MMBTU OIL	0.42% S OIL	BACT
		NOX	45.0000 LB/H OIL 0.3000 LB/MMBTU OIL	LEA FIRING	BACT
		CO	5.5000 LB/H OIL 0.0370 LB/MMBTU OIL	COMBUSTION CONTROLS	BACT
		VOC	1.1000 LB/H OIL 0.0070 LB/MMBTU OIL		LAER
		PM	2.0000 LB/H GAS 0.0130 LB/MMBTU GAS	LIQUID OR GASEOUS FUEL	BACT
		SO2	3.5000 LB/H GAS 0.0230 LB/MMBTU GAS	0.1% GR H2S/DSCF	NSPS
		NOX	18.0000 LB/H GAS 0.1200 LB/MMBTU GAS		BACT

		LEA FIRING	
CO	2.3000	LB/H GAS	BACT
	0.0150	LB/MMBTU GAS	
		COMBUSTION CONTROLS	
VOC	0.4000	LB/H GAS	BACT
	0.0070	LB/MMBTU GAS	

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGEN					
		PM	8.4000 LB/H 1.0000 LB/MLB COKE	ESP	NSPS 95.00
		SO2	42.7000 LB/H	S REDUCTION CATALYST	BACT 75.00
		NOX	31.5000 LB/H	LEA FIRING	BACT
		CO	73.5000 LB/H 500.0000 PPMV, LESS THAN	COMBUSTION CONTROL	NSPS
ISOSTRIPPER REBOILER	90.00 MMBTU/H	VOC	7.9000 LB/H		BACT
		PM	4.7000 LB/H OIL 0.0520 LB/MMBTU OIL	LIQUID OR GASEOUS FUEL	BACT
		SO2	42.0000 LB/H OIL 0.4670 LB/MMBTU OIL	0.42% S OIL	BACT
		NOX	27.0000 LB/H OIL 0.3000 LB/MMBTU OIL	LEA FIRING	BACT
		CO	3.3000 LB/H OIL 0.0370 LB/MMBTU OIL	COMBUSTION CONTROLS	BACT
		VOC	0.7000 LB/H OIL 0.0080 LB/MMBTU OIL		BACT
		PM	1.2000 LB/H GAS 0.0130 LB/MMBTU GAS	LIQUID OR GASEOUS FUEL	BACT
		SO2	2.1000 LB/H GAS 0.0230 LB/MMBTU GAS	0.1% GR H2S/DSCF	NSPS
		NOX	10.8000 LB/H GAS 0.1200 LB/MMBTU GAS	LEA FIRING	BACT
		CO	1.4000 LB/H GAS 0.0160 LB/MMBTU GAS	COMBUSTION CONTROLS	BACT

VOC	0.2000 LB/H GAS 0.0080 LB/MMBTU GAS		BACT

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR PLANT	2.70 MMBTU/H GAS				
		SO2	2.2000 LB/H		BACT
				SCOT TAIL GAS TREAT.	95.00
		NOX	0.3000 LB/H		BACT
			0.1200 LB/MMBTU		
				NONE	
FLARE					
		PM		TRACE	BACT
				SMOKELESS OPERATION	
		SO2		NEGLIGIBLE	BACT
				NONE	
		NOX		TRACE	BACT
				SMOKELESS/STEAM INJECTION	
		CO		TRACE	BACT
				SMOKELESS OPERATION	
BOILER	170.00 MMBTU/H OIL				
		PM	8.9000 LB/H OIL		BACT
			0.0520 LB/MMBTU OIL		
				LIQUID OR GASEOUS FUEL	
		SO2	79.3000 LB/H OIL		BACT
			0.4670 LB/MMBTU OIL		
				0.42% S FUEL	
		NOX	51.0000 LB/H OIL		BACT
			0.3000 LB/MMBTU OIL		
				LEA FIRING	
		CO	6.2000 LB/H OIL		BACT
			0.0360 LB/MMBTU OIL		
				COMBUSTION CONTROLS	
		VOC	1.2000 LB/H OIL		BACT
			0.0070 LB/MMBTU OIL		
		PM	2.3000 LB/H GAS		BACT
			0.0140 LB/MMBTU GAS		
				LIQUID OR GASEOUS FUEL	
		SO2	4.2000 LB/H GAS		BACT
			0.0250 LB/MMBTU GAS		
				0.1% GR H2S/DSCF	
		NOX	20.4000 LB/H GAS		BACT
			0.1200 LB/MMBTU GAS		
				COMBUSTION CONTROLS	

CO	2.6000 LB/H GAS	BACT
	0.0150 LB/MMBTU GAS	
	COMBUSTION CONTROL	
VOC	0.5000 LB/H GAS	BACT
	0.0070 LB/MMBTU GAS	

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VALVES -- GAS VAPOR, 396		VOC	2.1000 LB/H	BACT
VALVES -- LIGHT LIQUID, 268		VOC	0.9000 LB/H	BACT
VALVES -- HEAVY LIQUID, 357		VOC	0.2000 LB/H	BACT
FLANGES, 3650		VOC	2.1000 LB/H	BACT
OIL/WATER SEP		VOC	3.6000 LB/H	BACT
PUMPS -- LIGHT LIQUID, 58		VOC	2.0000 LB/H	BACT
PUMPS -- HEAVY LIQUID, 7		VOC	0.3000 LB/H	BACT
COOLING TOWER		VOC	3.6000 LB/H	BACT
STORAGE TANKS, 6	55.00 MBBL EA	VOC	7.8000 LB/H TOTAL EXTERNAL FLOATING ROOFS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION: PETRACO VALLEY OIL & REFINING CO., 1201 DAIRY ASHFORD, SUITE 150, HOUSTON, TX, CAMERON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. TX-236
DETERMINATION MADE BY: EPA REGION VI (AGENCY); JOHN BUNYAK (AGENCY CONTACT PERSON); (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/15/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE CHARGE	427.00 MMBTU/H				
		PM	3.2000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTROL	BACT
		SO2	6.8000 LB/H 0.0100 LB/MMBTU	LOW S GAS (0.1 GR H2S/DSCF)	NSPS
		NOX	51.3000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTRL	BACT
		VOC	0.8000 LB/H 0.0020 LB/MMBTU	F.G. O2 CONTROL	BACT
		CO	4.6000 LB/H 0.0100 LB/MMBTU	F.G. O2 CONTROL	BACT
HEATER, VACUUM CHARGE	219.00 MMBTU/H				
		PM	1.7000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTRL.	BACT
		SO2	3.5000 LB/H 0.0200 LB/MMBTU	LOW S GAS (0.1 GR H2S/DSCF)	NSPS

NOX	26.2000	LB/H	BACT
	0.1200	LB/MMBTU	
		LEA FIRING, F.G. O2 CONTRL	
VOC	0.4000	LB/H	BACT
	0.0020	LB/MMBTU	
		F.G. O2 CONTROL	
CO	2.3000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.G. O2 CONTROL	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATER	401.00 MMBTU/H				
		PM	3.0000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	6.7000 LB/H		BACT
			0.0200 LB/MMBTU		
				LOW S GAS, (0.1 GR H2S/DSCF)	
		NOX	48.1000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G O2 CONTRL	
		VOC	0.9000 LB/H		BACT
			0.0020 LB/MMBTU		
				F.G. O2 CONTROL	
		CO	4.7000 LB/H		BACT
			0.0100 LB/MMBTU		
				F.G. O2 CONTROL	
FCCU REGENERATOR	24.90 MBBL/D				
		PM	16.7000 LB/H		NSPS
			1.0000 LB/MLB COKE		
				ESP	75.00
		SO2	116.9000 LB/H		BACT
				S REDUCTION CATALYST	85.00
		NOX	39.3000 LB/H		BACT
				LEA FIRING, F.G. O2 CONTROL	
		VOC	12.7000 LB/H		BACT
				F.G. O2 CONTROL	
		CO	61.2000 LB/H		NSPS
			0.0500 % BY VOL.		
				F.G. O2 CONTROL	
HEATER, HYDROHEATER FEED	147.00 MMBTU/H				
		PM	1.1000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	2.6000 LB/H		NSPS
			0.0200 LB/MMBTU		
				LOW S GAS (0.1 GR H2S/DSCF)	
		NOX	17.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G. O2 CONTROL	

VOC	0.3000 LB/H		BACT
	0.0020 LB/MMBTU		
	F.. O2 CONTROL		
CO	1.7000 LB/H		BACT
	0.0100 LB/MMBTU		
	F.. O2 CONTROL		

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HYDROCRACKER	352.00 MMBTU/H				
		PM	2.7000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	6.1000 LB/H		NSPS
			0.0200 LB/MMBTU		
				LOW S GAS, 0.1 GR H2S/DSCF	
		NOX	42.3000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G. O2 CONTRL	
		VOC	0.8000 LB/H		BACT
			0.0020 LB/MMBTU		
				F.G. O2 CONTROL	
		CO	4.1000 LB/H		BACT
			0.0100 LB/MMBTU		
				F.G. O2 CONTROL	
REGENERATOR, PLATFORMER CAT.					
		PM		TRACE	BACT
				NONE	
		SO2	0.1000 LB/H		BACT
				NONE	
		NOX		TRACE	BACT
				NONE	
		VOC		TRACE	BACT
				NONE	
		CO		TRACE	BACT
				NONE	
HEATER, PLATFORM FEED	932.00 MMBTU/H				
		PM	53.2000 LB/H		BACT
			0.0070 LB/MMBTU		
				OIL FIRED, F.G. O2 CONTRL	
		SO2	570.9000 LB/H		BACT
			0.0200 LB/MMBTU		
				LOW S GAS, 0.7% S/LB	
		NOX	321.9000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G. O2 CONTRL	
		VOC	5.3000 LB/H		BACT
			0.0020 LB/MMBTU		

		F.G. 02 CONTROL	
CO	26.8000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.G. 02 CONTROLS	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PENEX ISOMER FEED	15.00 MMBTU/H				
		PM	0.1000 LB/H 0.0070 LB/MMBTU		BACT
				GAS FIRED, F.G. O2 CONTROL	
		SO2	0.3000 LB/H 0.0200 LB/MMBTU		NSPS
				LOW S GAS, 0.1 GR H2S/DSCF	
		NOX	1.7000 LB/H 0.1200 LB/MMBTU		BACT
				LEA FIRING, F.G. O2 CONTRL	
		VOC		TRACE	BACT
				F.G. O2 CONTROL	
		CO	0.2000 LB/H 0.0100 LB/MMBTU		BACT
				F.G. O2 CONTROL	
INCIN., SULFUR PLANT	48.00 MMBTU/H				
		PM	0.4000 LB/H 0.0080 LB/MMBTU		BACT
				NONE	
		SO2	26.0000 LB/H 0.0200 % BY VOL.		NSPS
				SULFUR PLANT, SULFUR RECOVERY	99.90
		NOX	67.4000 LB/H 1.4000 LB/MMBTU		BACT
				LEA FIRING, F.G. O2 CONTRL	
		VOC	0.1000 LB/H 0.0020 LB/MMBTU		BACT
				F.G. O2 CONTROL	
		CO	0.4000 LB/H 0.0080 LB/MMBTU		BACT
				F.G. O2 CONTROL	
HEATER, HF ALK ISOSTRIPPER REBO*	233.00 MMBTU/H				
		PM	1.7000 LB/H 0.0070 LB/MMBTU		BACT
				GAS FIRED, F.G. O2 CONTRL	
		SO2	4.0000 LB/H 0.0200 LB/MMBTU		NSPS
				LOW S GAS, 0.1 GR H2S/DSCF	
		NOX	28.0000 LB/H		BACT

	0.1200	LB/MMBTU	
		LEA FIRING, F.G. 02 CONTRL	
VOC	0.5000	LB/H	
	0.0020	LB/MMBTU	BACT
		F.G. 02 CONTROLS	
CO	2.7000	LB/H	
	0.0100	LB/MMBTU	BACT
		F.G. 02 CONTROL	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, BUTAMER ISOMER	12.00 MMBTU/H				
		PM	0.1000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTROL	BACT
		SO2	0.2000 LB/H 0.0200 LB/MMBTU	LOW S GAS, 0.1 GR H2S/DSCF	BACT
		NOX	1.4000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTRL	BACT
		VOC	TRACE	F.G. O2 CONTROL	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU	F.G. O2 CONTROL	BACT
FLARE					
		SO2	112.1000 LB/H	NONE	
		NOX	78.8000 LB/H	STEAM INJECTION	BACT
		VOC	3.3000 LB/H	STEAM INJECTION	BACT
		CO	17.8000 LB/H	STEAM INJECTION	BACT
		PM	0.0000 LB/H	STEAM INJECTION	BACT
BOILER	255.00 MMBTU/H				
		PM	1.9000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G.O2 CONTRL	BACT
		SO2	3.4000 LB/H 0.0100 LB/MMBTU	LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	31.7000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTROL	BACT
		VOC	0.4000 LB/H 0.0020 LB/MMBTU	F.G. O2 CONTROL	BACT

CO	2.3000 LB/H 0.0100 LB/MMBTU F.G. O2 CONTROL		BACT

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, OIL	163.00 MMBTU/H				
		PM	1.2000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTRL	BACT
		SO2	2.8000 LB/H 0.0100 LB/MMBTU	LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	19.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTROL	BACT
		VOC	0.4000 LB/H 0.0020 LB/MMBTU	F.G. O2 CONTROL	BACT
		CO	1.9000 LB/H 0.0100 LB/MMBTU	F.G. O2 CONTROL	BACT
HEATER, SCOT UNIT FEED	5.00 MMBTU/H				
		PM		TRACE NONE	BACT
		SO2	0.1000 LB/H 0.0100 LB/MMBTU	NONE	BACT
		NOX	0.6000 LB/H 0.1200 LB/MMBTU	NONE	BACT
		VOC		TRACE NONE	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU	NONE	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 130000.00 BPSD

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
BORGER REF NGL CONTR. BORGER, TX
HUTCHINSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-102M-1
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/15/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, 2	650.00 HP EA				
		SO2	0.0320 LB/MMBTU GAS		
			0.8000 LB/MMBTU OIL		
				0.7% S IN OIL	
		NOX	0.1360 LB/MMBTU GAS		
			0.4000 LB/MMBTU OIL		
				O2 MONITORING	
		VOC	0.0036 LB/MMBTU GAS		
			0.0070 LB/MMBTU OIL		
				O2 MONITORING	
		CO	0.0170 LB/MMBTU GAS		
			0.0340 LB/MMBTU OIL		
				O2 MONITORING	
		PM	0.0100 LB/MMBTU GAS		
			0.0700 LB/MMBTU OIL		
TURBINE, 2	3000.00 HP EA				
		SO2	0.0320 LB/MMBTU GAS		
			0.8000 LB/MMBTU OIL		
				0.7% S IN OIL	
		NOX	0.1360 LB/MMBTU GAS		
			0.4000 LB/MMBTU OIL		
				O2 MONITORING	
		VOC	0.0036 LB/MMBTU GAS		

	0.0070	LB/MMBTU OIL O2 MONITORING
CO	0.0170	LB/MMBTU GAS
	0.0340	LB/MMBTU OIL O2 MONITORING
PM	0.0100	LB/MMBTU GAS
	0.0700	LB/MMBTU OIL

(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4	32.00 MMBTU/H				
		SO2	0.0320 LB/MMBTU	GAS AS FUEL	
		NOX	0.1360 LB/MMBTU	O2 MONITORING	
		VOC	0.0036 LB/MMBTU	O2 MONITORING	
		CO	0.0170 LB/MMBTU	O2 MONITORING	
		PM	0.0100 LB/MMBTU	GAS AS FUEL	
CRUDE OIL TANKS, 3	200.00 MBBL				
		VOC	1.8300 T/YR EA	EPA EQUIV. STAND & MAINT. PROG	
FUGITIVE					
		VOC	140.0000 T/YR	EPA EQUIV. STAND & MAINT. PROG	
CO BOILERS, 2	370.00 MMBTU/H				
		SO2	0.1000 LB/MMBTU		
		NOX	1.9000 LB/MMBTU	O2 MONITORING	
		VOC	0.0014 LB/MMBTU	O2 MONITORING	
		CO	0.0170 LB/MMBTU	O2 MONITORING	
		PM	0.3100 LB/MMBTU	GAS AS FUEL	
I.C. COMPRESSOR	720.00 HP				
		SO2	0.1000 G/HP-H	GAS AS FUEL	
		NOX	10.9000 G/HP-H		
		VOC	4.4200 G/HP-H		
		CO	1.3900 G/HP-H		
		PM	0.0200 G/HP-H	GAS AS FUEL	

NOTES ----------
NATURAL GAS FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D

COMPANY NAME/SITE LOCATION PROCESS REFIN. CO. BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SJ-78-27
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/19/79
ESTIMATED DATE OF START-UP--
(415)-974-8058 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM HEATER	25.00 MMBTU/H	NOX	0.2700 LB/MMBTU	LOW NOX BURNERS	35.00
CRUDE HEATER	20.00 MMBTU/H	NOX	0.2700 LB/MMBTU	LOW NOX BURNERS	35.00
BOILER, 2 EA	4.31 MMBTU/H	NOX	0.2700 LB/MMBTU	LOW NOX BURNERS	35.00

NOTES ----------

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

COMPANY NAME/SITE LOCATION PROVIDENT ENERGY CO. MOBILE, AZ

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AZP79-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--
(415)-974-8038 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER AND HEATER					
		NOX	0.4300	LB/MMBTU 2H AV LOW NOX BURNERS	
		SO2		FUEL LIM:H2S-.1GR/DSCF,S-.4%WT	
CLAUS SULFUR RECOVERY UNIT					
		H2S		SCOT TAIL GAS UNIT	
FCC UNIT & CATALYIST REGEN.					
		PM	1.0000	LB/MLB COKE BURNED 3 STAGE CATALYST SEP. & ESP	
		CO		CO BOILER	
		SO2		FUEL LIM:H2S-.1GR/DSCF,S-.1%WT	

NOTES ----------
BACT RESOLUTION: REFINERY FUEL OIL WILL BE FILTERED TO REDUCE PM. 1) FACULITY: 50000 BBL/STREAM DAY 2) LIMITS DETERMINED BY TE CHNOLOGY AND NSPS CONSIDERATIONS. CONTROL OF HC EMISSIONS FROM FACITLTY INCLUDE INSPECTION/MAINTENANCE PROGRESS, COVERED OIL/WATER SEPERATOR, VAPOR RECOVERY ON LIGHT GASOLINE TANKS, AND DOUBLE SEALED FLOATING ROOF TANKS ON OTHER GASOLINE T ANKS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 100.00 MBPSD

COMPANY NAME/SITE LOCATION SABER REFIN.
6560 UPRIVER ROAD CORPUS CHRISTI, TX NEUCES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-324
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 5	365.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FIELD GAS	BACT
		SO2	0.0140 LB/MMBTU	FIRE REFINERY FLUE GAS	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU	EFFICIENT COMBUSTION	BACT
FURNACES, 5	178.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU	EFFICIENT COMBUSTION	BACT
REBOILERS, 2	158.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	REF. FUEL GAS	NSPS

NOX	0.1200	LB/MMBTU LOW NOX BURNERS	BACT
CO	0.0160	LB/MMBTU EFFICIENT COMBUSTION	BACT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMERS, 2	356.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	FIRE REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU	EFFICIENT COMBUSTION	BACT
HEAVY OIL CRACKING UNIT	46500.00 BPSD				
		PM	5.6000 LB/H	3-STAGE CYCLONE	BACT
		SO2	178.0000 PPM	FLUE GAS DESULFURIZATION	NSPS 98.20
		NOX	203.0000 LB/H	NO CONTROLS AVAILABLE	BACT
		CO	178.0000 PPM	WASTE HEAT BOILER	NSPS

NOTES ----------
H2S CONTENT OF FLUE GAS WILL BE LIMITED TO 0.054 GRAINS/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 67.00 MBPSD

COMPANY NAME/SITE LOCATION SIGMORE REFIN. CO.
P.O. BOX 20267 SAN ANTONIO, TX 78220
LIVE OAK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-331 DATE OF PERMIT ISSUANCE-- 12/10/80
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, #1 CRUDE	59.50 MMBTU/H				
		PM	2.7500 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	22.1800 LB/H	0.7% S FUEL OIL	BACT
		NOX	9.3400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	2.1300 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, LUBE CRUDE	10.80 MMBTU/H				
		PM	0.0600 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.2300 LB/H	0.7% S FUEL OIL	BACT
		NOX	2.4800 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.1800 LB/H	EFFICIENT COMBUSTION	BACT
FCCU REGENERATOR	40.00 MBPSD				
		PM	12.0000 LB/H	ESP	NSPS
		SO2	205.4200 LB/H	HIGH TEMP REGEN.	90.00 BACT

NOX	37.0100 LB/H HIGH TEMP REGEN.		BACT
CO	90.1200 LB/H HIGH TEMP REGEN.		BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, ISOSTRIPPER	48.80 MMBTU/H				
		PM	3.3100 LB/H	EFFICIENT COOMBUSTION	BACT
		SO2	38.6000 LB/H	0.7% S FUEL OIL	BACT
		NOX	32.8700 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.6500 LB/H	EFFICIENT COMBUSTION	BACT
BOILERS	167.80 MMBTU/H				
		PM	11.3600 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	132.7200 LB/H	0.7% S FUEL OIL	BACT
		NOX	113.0400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	9.6800 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H				
		PM	2.7100 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	31.6400 LB/H	0.7% S FUEL OIL	BACT
		NOX	26.9500 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.3500 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, VACUUM DISTALLATION	96.50 MMBTU/H				
		PM	1.6000 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	19.4900 LB/H	.7% S FUEL,SCRUB TO .1 GR/DSCF	BACT
		NOX	20.8000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	2.5000 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, #2 CRUDE UNIT	18.10 MMBTU/H				
		PM	0.2700 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.0100 LB/H	0.7% S FUEL OIL	BACT
		NOX	4.1600 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.3100 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H				
		PM	2.7100 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	31.6400 LB/H	0.7% S FUEL OIL	BACT
		NOX	26.9500 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.3500 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, CRUDE CHARGE	130.40 MMBTU/H				
		PM	8.8300 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	103.1400 LB/H	0.7% S FUEL OIL	BACT
		NOX	87.8400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	4.4200 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA STABILIZER	19.50 MMBTU/H				
		PM	1.3200 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	15.4200 LB/H	0.7% S FUEL OIL	BACT
		NOX	13.1400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.6600 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, NAPHTHA HDS CHARGE	36.40 MMBTU/H				
		PM	0.1900 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	1.0000 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	4.4600 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.6300 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA SPLITTER	27.30 MMBTU/H				
		PM	0.1400 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.7500 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.3400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.4700 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, 1ST REFORMER	59.50 MMBTU/H				
		PM	0.3100 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	1.6300 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	7.2900 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.0300 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, 2ND REFORMER	52.80 MMBTU/H				
		PM	0.2700 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	1.4500 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	6.4700 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.9200 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 3RD REFORMER	26.40 MMBTU/H				
		PM	0.1400 LB/H	EFFICIENT OPERATION	BACT
		SO2	0.7200 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.2300 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.4600 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, 4TH REFORMER	13.20 MMBTU/H				
		PM	0.0700 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.3600 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6200 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.2300 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, REFORMER STABILIZER	16.40 MMBTU/H				
		PM	0.0800 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.4500 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	2.0100 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.2800 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, KEROSENE HDS STRIPPER	13.60 MMBTU/H				
		PM	0.0700 LB/H	EFFICIENT OPERATION	BACT
		SO2	0.3700 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6700 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.2400 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, GAS OIL HDS CHARGE	97.80 MMBTU/H				
		PM	0.5000 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	2.6800 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	11.9800 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.7000 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, DEETHANIZER	25.20 MMBTU/H				
		PM	0.1300 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.6900 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.0900 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.4400 LB/H	EFFICIENT COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 31500.00 BPSD

COMPANY NAME/SITE LOCATION SOUTHERN UNION REFIN.
5 MI SE LOVINGTON LOVINGTON, NM
LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-350
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/05/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 13 EA	85.00 MMBTU/H				
		PM	0.0050 LB/MMBTU	GAS FUEL GAS OR LOW SULFUR OIL	BACT
		SO2	0.0270 LB/MMBTU	FUEL OIL OR NATURAL GAS	BACT
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
SULFUR RECOVERY UNIT					
		SO2	0.8400 LB/H	CLAUS UNIT	BACT

NOTES ----------
13 HEATERS AND 1 SULFUR RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION STANDARD OIL LIMA, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-1138
DETERMINATION MADE BY OHIO EPA - NWD (AGENCY) CHUCK HULL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/08/82
ESTIMATED DATE OF START-UP-- 1984
(419)-352-8461 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER A	78.00 MMBTU/H				
		PM	0.0140 LB/MMBTU	2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU		
		NO2	0.1470 LB/MMBTU		
		CO	0.0150 LB/MMBTU		
HEATER B	164.00 MMBTU/H				
		PM	0.0140 LB/MMBTU	2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU		
		NO2	0.1470 LB/MMBTU		
		CO	0.0150 LB/MMBTU		
HEATER C	44.00 MMBTU/H				
		PM	0.0140 LB/MMBTU	2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU		
		NO2	0.1470 LB/MMBTU		
		CO	0.0150 LB/MMBTU		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 63.00 MMBTU/H

COMPANY NAME/SITE LOCATION SUNOCO MARCUS HOOK, PA DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 78PA10
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON) (215)-597-2711 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/20/79
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER/BOILER	63.00 MMBTU/H				
		SO2	56.0000 LB/H	1% SULFUR FUEL OIL	BACT
		NOX	23.0000 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TENNECO CHALMETTE, LA
ST. BERNARD PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-LA-199
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 26	287.00 MMBTU/H	CO	0.0210 LB/MMBTU GAS 0.0300 LB/MMBTU OIL O2 MONITORING	BACT
BOILERS, 13	160.00 MMBTU/H	CO	0.0210 LB/MMBTU GAS 0.0300 LB/MMBTU OIL O2 MONITORING	BACT
CO BOILER	350.00 MMBTU/H	CO	0.0210 LB/MMBTU GAS 0.0300 LB/MMBTU OIL O2 MONITORING	BACT
FLARES, 2		CO	1.6000 LB/H EA NONE	BACT
SULFUR PLANT	6.60 MMBTU/H	CO	0.0380 LB/MMBTU NONE	BACT

(CONTINUED) TENNECO

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGEN	42000.00 BPSD				
		CO	212.8000 LB/H	COMPLIANCE W/NSPS	NSPS

NOTES ----------
26 HEATERS RANGING IN SIZE FROM 11 TO 287 MMBTU/HR. 13 BOILERS RANGING IN SIZE FROM 24 TO 160 MMBTU/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 100000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-420
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/16/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 15 EA	198.00 MMBTU/H	CO	0.0300 LB/MMBTU	FLUE GAS O2 MONITOR LOW EXCESS AIR	BACT
ACID GAS INCTN.	8.00 MMBTU/H	CO	0.9300 LB/MMBTU	LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT
ERG INCINERATOR	13.10 MMBTU/H	CO	0.0200 LB/MMBTU	LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 140000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-378
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/23/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MTU-CRU FLUE GAS COOLER	670.00 MMBTU/H			
		CO	0.0200 LB/MMBTU	
INCIN., 3 EA	13.10 MMBTU/H		HIGH TEMP REGENERATION (HTR)	BACT
		CO	0.0200 LB/MMBTU	
POWER RECOVERY STACK			HIGH TEMP REGENERATION (HTR)	BACT
		CO		
			LIMIT EMISSIONS TO 500 PPM	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 712
PORT ARTHUR, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-141
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/20/79
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU	170.00 MBBL/D				
		SO2	406.3000 LB/H	SOX REDUCTION CATALYST	NSPS 75.00
HEATER #1407	30.74 SCFM				
		SO2	4.5000 LB/H	0.1 GR/DSCF, AMINE SCRUB.	NSPS
FLUE GAS SCRUB./SULFUR RECOVERY					
		SO2	1.1000 LB/H SEE NOTE	TAIL GAS TREATING UNIT	NSPS 99.97

NOTES ----------
NOTE: F.G. SCRUB./S RECOVERY EMISSIONS ARE INCREASE ONLY OVER EXISTING CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP. BAKERSFIELD, CA

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-78-26
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON) (415)-974-8066 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/18/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO BOILER	92700.00 LB/H				
		CO	45.7000 LB/H	BOILER BURNS CO EMITTED FROM TCC UNIT	LAER
		SO2	0.5000 % S FUEL	SULFUR IN AUXILLARY FUEL OIL	99.40 LAER
		NOX	41.0000 LB/H	COMBUSTION MODIFICATION BASED ON 0.3 LB/MMBTU	BACT

NOTES ----------
THERMOFOR CATALYTIC CRACKING. INSTALLATION OF CO BOILER ON REFINERY TCC' UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D

COMPANY NAME/SITE LOCATION UNI OIL INGLESIDE, TX

SAN PATRICIO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-229
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/12/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, VACUUM	66.65 MMBTU/H				
		SO2	1.2700 LB/H 0.0190 LB/MMBTU	FUEL GAS: 0.1 GR/DSCF H2S	NSPS
		PM	1.5100 LB/H 0.0230 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	11.6000 LB/H 0.1740 LB/MMBTU	COMBUS. CONTROL/LOW NOX BURN.	BACT
		CO	1.6700 LB/H 0.0250 LB/MMBTU	COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0024 LB/MMBTU	COMBUSTION CONTROL	BACT
FCC UNIT	17000.00 BBL/D				
		SO2	64.1000 LB/H	F. G. :0.1 GR/DSCF H2S	NSPS
		PM	12.0000 LB/H 1.0000 LB/MLB COKE BURN OFF	ESP	NSPS
		NOX	29.4000 LB/H		BACT

		CMBST. CONTRL. & LOW NOX BURN.	
CO	89.1000	LB/H	NSPS
		HIGH TEMP. REGENERATION	
VOC	2.6000	LB/H	BACT
		COMBUSTION CONTROL	

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 712
PORT ARTHUR, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-141
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/20/79
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU	170.00 MBBL/D				
		SO2	406.3000 LB/H	SOX REDUCTION CATALYST	NSPS 75.00
HEATER #1407	30.74 SCFM				
		SO2	4.5000 LB/H	0.1 GR/DSCF, AMINE SCRUB.	NSPS
FLUE GAS SCRUB./SULFUR RECOVERY					
		SO2	1.1000 LB/H SEE NOTE	TAIL GAS TREATING UNIT	NSPS 99.97

NOTES ----------
NOTE: F.G. SCRUB./S RECOVERY EMISSIONS ARE INCREASE ONLY OVER EXISTING CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

		CMBST. CONTRL. & LOW NOX BURN.	
CO	89.1000	LB/H	NSPS
		HIGH TEMP. REGENERATION	
VOC	2.6000	LB/H	BACT
		COMBUSTION CONTROL	

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, ISOSTRIPPER	38.24 MMBTU/H				
		SO2	0.6300 LB/H		
			0.0790 LB/MMBTU	F.G. : 0.01 GR/DSCF H2S	NSPS
		PM	0.8700 LB/H		
			0.0230 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	6.8500 LB/H		
			0.1790 LB/MMBTU	CMBST. CONTRL./LOW NOX BURN.	BACT
		CO	1.1100 LB/H		
			0.0290 LB/MMBTU	COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H		
			0.0042 LB/MMBTU	COMBUSTION CONTROL	BACT
TAIL GAS INCIN					
		SO2	39.7000 LB/H	NO CONTROL	BACT
		NOX	0.0790 LB/H	NO CONTROL	BACT
REGENERATOR, HYDROTREATER CATAL*					
		SO2	0.2400 LB/H	F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	0.7900 LB/H	COMBUSTION CONTROL	BACT
HEATER, REFORMER	161.00 MMBTU/H				
		SO2	1.9000 LB/H		
			0.0120 LB/MMBTU	F.G. : 0.1 GR/DSCF	NSPS
		PM	0.0790 LB/H		
			0.0005 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H		
			0.2700 LB/MMBTU	CMBST. CONTRL./LOW NOX BURN.	BACT
		CO	6.7500 LB/H		
			0.0420 LB/MMBTU	COMBUSTION CONTROL	BACT

VOC	0.8000 LB/H 0.0050 LB/MMBTU COMBUSTION CONTROL		BACT

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HDS	40.00 MMBTU/H				
		SO2	0.4800 LB/H 0.0120 LB/MMBTU	F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	1.4300 LB/H 0.0360 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	10.9000 LB/H 0.2700 LB/MMBTU	CMBST. CONTRL./LOW NOX BURN.	BACT
		CO	1.6700 LB/H 0.0420 LB/MMBTU	COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0040 LB/MMBTU	COMBUSTION CONTROL	BACT
BOILER, PACKAGE	103.24 MMBTU/H				
		SO2	0.7900 LB/H 0.0077 LB/MMBTU	F.G. : 0.1 GR/DSCF	NSPS
		PM	1.5900 LB/H 0.0150 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	7.9400 LB/H 0.0760 LB/MMBTU	COMBUSTION CONTROL	BACT
		CO	0.7100 LB/H 0.0069 LB/MMBTU	COMBUSTION CONTROL	BACT
		VOC	0.0600 LB/H 0.0006 LB/MMBTU	COMBUSTION CONTROL	BACT

NOTES ----------
THE NEW FACILITY WILL NOT INCREACE THE REFINERIES CRUDE HANDLING CAPACITY, BUT WILL ENABLE THE REFINERY TO MAKE PREMIUM UNLEAD ED GASOLINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 46500.00 BPSD

COMPANY NAME/SITE LOCATION VENTECH REFIN. KROTZ SPRINGS, LA ST. LANDRY PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-232 DATE OF PERMIT ISSUANCE-- 02/13/80
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CATALYTIC REGEN					
		PM	14.6000 LB/H	3 STAGE CYCLONE	BACT 94.00
		SO2	265.2000 LB/H	LOW H2S FUEL (OIL LB/DCSF)	NSPS
		NOX	66.6000 LB/H	LOW EXCESS AIR	BACT
		VOC	2.2000 LB/H	LOW EXCESS AIR	BACT
		CO	104.7000 LB/H	FLOT REGEN	NSPS 99.90
SULFUR RECOVERY PLANT		SO2	2.1000 LB/H	NONE	NSPS
FCCU FURNACE	50.00 MMBTU/H				
		PM	0.0200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0260 LB/MMBTU	LOW H2S FUEL	NSPS
		NOX	0.2300 LB/MMBTU	LOW EXCESS AIR - COMBST CONTRL	BACT
		VOC	0.0060 LB/MMBTU	EFFICIENT OPERATION	BACT

CO	0.0200 LB/MMBTU LOW EXCESS AIR		NSPS

(CONTINUED) VENTECH REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM FURNACE	100.00 MMBTU/H				
		PM	0.0200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0260 LB/MMBTU	LOW H2S FUEL	NSPS
		NOX	0.2300 LB/MMBTU	COMBUSTION CONTROLS	BACT
		VOC	0.0060 LB/MMBTU	EFFICIENT OPERATION	BACT
		CO	0.0200 LB/MMBTU	LOW EXCESS AIR	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 21.00 MBBL/D

COMPANY NAME/SITE LOCATION GARY WESTERN REFIN.
GARY COMMUNITY RUAL STATION FRUITA, CO 81521
MESA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/24/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VAP. REC. GAS CONT.	18.00 MMSCFD	NOX	1.2600 LB/H LOW NOX BURNERS	BACT
BOILER #4	47.00 MLB/H STEAM	NOX	8.4100 LB/H LOW NOX BURNERS	BACT
CRUDE UNIT	21.00 MBPSD	NOX	5.3100 LB/H LOW NOX BURNERS	BACT
DISTILLATE HDS	7.35 MBPSD	NOX	3.4200 LB/H LOW NOX BURNERS	BACT
GILSONITE MELT	565.00 T/D	NOX	3.6000 LB/H LOW NOX BURNERS	BACT
HYDROCRACKER	8.40 MBPSD	NOX	6.0200 LB/H LOW NOX BURNERS	BACT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MARUZEN LUMMIS	3.15 MBPSD				
		NOX	1.4400 LB/H	LOW NOX BURNERS	BACT
NEW H2 PLANT	650.00 MSCFD				
		NOX	13.3200 LB/H	LOW NOX BURNERS	BACT
PLATFORMER	6.30 MBPSD				
		NOX	10.0900 LB/H	LOW NOX BURNERS	BACT
SUL RECOV PLANT	25.00 T/D				
		SO2	250.0000 PPM		BACT
			60.1000 LB/H	TAIL GAS SCRUBBER	99.00
SUL RECOV PLANT	25.00 T/D				
		NOX	0.3600 LB/H	LOW NOX BURNERS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 184000.00 BPSD

COMPANY NAME/SITE LOCATION HAMPTON ROADS ENERGY CO. PORTSMOUTH, VA
PORTSMOUTH CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78VA01
DETERMINATION MADE BY EPA REGION III (AGENCY) EILEEN GLEN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/80
ESTIMATED DATE OF START-UP--
(215)-597-8187 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, RESIDUE HDS, STACK 1.	32.00 MMBTU/H				
		PM	18.0000 LB/H		BACT
		SO2	96.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	60.0000 LB/H	LOW NOX BURNERS	BACT
		CO	11.0000 LB/H	GOOD OPERATION	BACT
HEATER, HYDROGEN PLANT, STACK 1.	770.00 MMBTU/H				
		PM	43.0000 LB/H		BACT
		SO2	232.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	144.0000 LB/H	LOW NOX BURNERS	BACT
		CO	25.0000 LB/H	GOOD OPERATION	BACT
HEATER, SULFUR PLANT, STACK 1.	50.00 MMBTU/H				
		PM	4.0000 LB/H		BACT
		SO2	15.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	15.0000 LB/H	LOW NOX BURNERS	BACT
		CO	2.0000 LB/H		BACT

GOOD OPERATION

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR RECOVERY UNIT					
		SO2	152.0000 LB/H		NAAQ
				BEACON UNIT OR EQUIVALENT	99.50
HEATER, DISTILLATE HDS, STACK 2.	130.00 MMBTU/H				
		PM	7.0000 LB/H		BACT
		SO2	39.0000 LB/H		NAAQ
				0.3% S FUEL	
		NOX	24.0000 LB/H		BACT
				LOW NOX BURNERS	
		CO	4.0000 LB/H		BACT
				GOOD OPERATION	
HEATER, NAPHTHA HDS, STACK 2.	260.00 MMBTU/H				
		PM	15.0000 LB/H		BACT
		SO2	78.0000 LB/H		NAAQ
				0.3% S FUEL	
		NOX	49.0000 LB/H		BACT
				LOW NOX BURNERS	
		CO	9.0000 LB/H		BACT
				GOOD OPERATION	
HEATER, CATALYTIC REFORMER, STA*	520.00 MMBTU/H				
		PM	29.0000 LB/H		BACT
		SO2	152.0000 LB/H		NAAQ
				0.3% S FUEL	
		NOX	97.0000 LB/H		BACT
				LOW NOX BURNERS	
		CO	17.0000 LB/H		BACT
				GOOD OPERATION	
HEATER, ISOMERIZATION UNIT, STA*	95.00 MMBTU/H				
		PM	6.0000 LB/H		BACT
		SO2	28.0000 LB/H		NAAQ
				0.3% S FUEL	
		NOX	18.0000 LB/H		BACT
				LOW NOX BURNERS	
				LOW NOX BURNERS	
		CO	3.0000 LB/H		BACT
				GOOD OPERATION	

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, ATMOS. CRUDE DISTIL, ST*	505.00 MMBTU/H				
		PM	29.0000 LB/H		BACT
		SO2	152.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	95.0000 LB/H	LOW NOX BURNERS	BACT
		CO	17.0000 LB/H	GOOD OPERATION	BACT
GEN,UTILITY STEAM,STACK 3	60.00 MMBTU/H				
		PM	34.0000 LB/H		BACT
		SO2	180.0000 LB/H	0.3% S FUEL	NAAQ
		NO2	106.0000 LB/H	LOW NOX BURNERS	BACT
		CO	20.0000 LB/H	GOOD OPERATION	BACT
FLARING		SO2	8.0000 LB/H		BACT

NOTES ----------
BACT -- SO2 LIMITS DETERMINED BY NAAQS & PSD CLASS II INCREMENT CONSTRAINTS. SO2 EMISSIONS FROM START-UP OF LPG PLANT TO BE OF
FSET BY REDUCTIONS FROM OTHER SOURCES.
TANKERS BURN FUEL WITH S CONTENT <1.0%.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 750.00 MBPSD

COMPANY NAME/SITE LOCATION HESS OIL - VIRGIN ISLANDS ST. CROIX, VI 00806

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NONE
DETERMINATION MADE BY EPA REGION II (AGENCY) ED NOWAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/82
ESTIMATED DATE OF START-UP-- 1985
(212)-264-8690 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC UNIT, 2	152734.00 BBL/D				
		SO2	0.6000	% BY WT. USE OF LOW S FEED STOCK VOG	BACT
		PM	0.8000	LB/MLB COKE BURN ESP	BACT 95.00
		NOX	175.0000	PPM 2% O2 LEA & LOW COMBST TEMPS	BACT
		CO	500.0000	PPM VOL CO BURNING REGENERATOR	BACT
		VOC		CO BURNING REGENERATOR	
PROCESS HEATERS, 3					
		SO2	0.1000	GR/DSCF H2S,GAS	
			0.5000	% S OIL LOW S GAS OR OIL	NSPS
		PM	0.1000	LB/MMBTU PROPER MAINTENANCE	NSPS
		NOX	0.2000	LB/MMBTU GAS	
			0.3000	LB/MMBTU OIL LEA & WASTE HEAT REC.	BACT
		CO	0.2000	LB/MMBTU GAS	
			0.3000	LB/MMBTU OIL LEA & WASTE HEAT REC.	BACT
		VOC	0.2000	LB/MMBTU GAS	BACT

0.3000 LB/MMBTU OIL
LEA & WASTE HEAT REC.

(CONTINUED) HESS OIL - VIRGIN ISLANDS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FUGITIVE EMISSION SOURCES					
		VOC			
				GOOD ENGINEERING PRACT.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION HILL PETROLEUM CO. KROTZ SPRINGS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOE WINKLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/09/80
ESTIMATED DATE OF START-UP--
(214)-767-2600 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIQ. STORAGE TANKS (< 11.1 PSIA*		VOC		FLOATING ROOF TANK W/DBL SEALS	
LIQ. STORAGE TANKS (> 11.1 PSIA*		VOC		PRES. VESSELS W/ VAPOR BAL.	
LIQUID PETROLEUM PUMPS		VOC		DOUBLE MECHANICAL SEALS	
LIQUID PETROLEUM BARGES		VOC		SUBMERGED FILL LINES	
HEATER, REFORMER CHARGE	100.15 MMBTU/H	NOX	0.0610 LB/MMBTU GAS 0.0430 LB/MMBTU PROPANE	LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000 LB/MMBTU GAS 1.5000 LB/MMBTU PROPANE	FLUE GAS MONITORING	

(CONTINUED) HILL PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HYDROTREATER CHARGE	18.29 MMBTU/H				
		NOX	0.0610 LB/MMBTU	LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000 LB/MMBTU	FLUE GAS MONITORING	
HEATER, HYDROTREATER STABLIZER	13.58 MMBTU/H				
		NOX	0.0610 LB/MMBTU GAS 0.0430 LB/MMBTU PROPANE	LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000 LB/MMBTU GAS 1.5000 LB/MMBTU PROPANE	FLUE GAS MONITORING	
REBOILER, REFORMER STABILIZER	12.93 MMBTU/H				
		NOX	0.0610 LB/MMBTU GAS 0.0430 LB/MMBTU PROPANE	LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000 LB/MMBTU GAS 1.5000 LB/MMBTU PROPANE	FLUE GAS MONITORING	
REBOILER, STABILIZER (GASOLINE)	15.49 MMBTU/H				
		NOX	0.0610 LB/MMBTU	LOW NOX BURNERS W/F.G. MONITORS	
		CO	4.0000 LB/MMBTU	FLUE GAS MONITORING	
BOILER	78.15 MMBTU/H				
		NOX	0.1000 LB/MMBTU GAS 0.1100 LB/MMBTU PROPANE	LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000 LB/MMBTU GAS 1.5000 LB/MMBTU PROPANE	FLUE GAS MONITORING	

NOTES ----------
THE SOURCE WILL OPERATE CONTINUOUSLY, 8640 HRS/YR. ALL CONTROL STRATIGES ARE CONSIDERED BACT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION MIAMI VALLEY REFIN. CO. AURORA, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(15)1485
DETERMINATION MADE BY INDIANA APCD (AGENCY) FRANK PROFIT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/07/81
ESTIMATED DATE OF START-UP--
(317)-633-0664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FBC COAL FIRED BOILER	50000.00 BTU/H				
		PM	0.0600 LB/MMBTU	MULTICLONE & BAGHOUSE	
		SO2	0.1400 LB/MMBTU		99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 10.00 MBPSD

COMPANY NAME/SITE LOCATION MITCHELL ENERGY, HWY 380, 2 MI W OF BRIDGE PORT, BRIDGEPORT, TX, WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-139
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/24/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 2	21.34 MMBTU/H	VOC	0.0030 LB/MMBTU	EFFICIENT OPERATION	BACT
BOILER	12.55 MMBTU/H	VOC	0.0030 LB/MMBTU	EFFICIENT OPERATION	BACT
FLARE		VOC	0.0460 LB/MMBTU	EFFICIENT OPERATION	BACT
NALTHA STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.3700 LB/MMBTU	DOUBLE SEALS	BACT
KEROSENE STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1600 LB/MMBTU	DOUBLE SEALS	BACT
DIESEL STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1200 LB/MMBTU	DOUBLE SEALS	BACT

(CONTINUED) MITCHELL ENERGY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RESIDUE STORAGE TANKS	10000.00 BBL EA				
		VOC	0.0100 LB/MMBTU	DOUBLE SEALS	BACT
PROCESS DRAINS					
		VOC	0.1600 LB/MMBTU	MAINTENANCE PROG.	BACT
VALVES & FLANGES					
		VOC	11.7000 LB/MMBTU	MAINTENANCE PROG.	BACT
PUMP SEALS					
		VOC	4.1700 LB/MMBTU	MAINTENANCE PROG.	BACT
CRUDE UNLOAD					
		VOC	2.6200 LB/MMBTU	MAINTENANCE PROG.	BACT
PRODUCT UNLOAD					
		VOC	1.4800 LB/MMBTU	MAINTENANCE PROG.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION SUNLAND REFIN. CORP. BAKERSFIELD, CA

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. SJ-79-22
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON) (415)-454-8066 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/22/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS		VOC		DOUBLE SEAL INTERNAL FLOATING ROOF OR VAPOR RECOVERY	
LOADING RACKS		VOC	30.0000 MG/L OF PRODUCT	CARBON ABSORPTION SYS	
TANK TRUCKS		VOC		TRAILER TANKS TO BE LEAK TIGHT	
VALVES/FLANGES/PUMPS/COMPRESSORS		VOC		FUGITIVE I&M PROGRAM	
WORK WATER SEPARATOR		VOC		REQUIRED TO BE COVERED	
SUMP		VOC		REQUIRED TO BE COVERED	

(CONTINUED) SUNLAND REFIN. CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS TURNAROUNDS					
VACUUM DEVICES		VOC		VENT DEPRESSURED & PURGED TO FUEL GAS SYS	
PRESSURE RELIEF VALVES		VOC		VENTED TO FUEL GAS SYS	
COMBUSTION SOURCES		VOC		VENTED TO FLARE SYS & INCINERATED	LAER
		SO2	0.0300 GR/DSCF H2S		LAER
		NOX	50.0000 PPM 3% O2	LOW NOX BURNERS NON-CATALYTIC AMMONIA INJECTION	BACT
SULFUR RECOVERY PLANT		SO2	1.0000 LB/H		LAER

NOTES ----------
A)VAPOR COLLECTION SYS MUST BE VAPOR TIGHT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 26000.00 BPSD

COMPANY NAME/SITE LOCATION SWANN OIL CO. CHESAPEAKE, VA
CHESAPEAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78VA04
DETERMINATION MADE BY EPA REGION III (AGENCY) EILEEN GLEN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/81
ESTIMATED DATE OF START-UP--
(215)-597-8187 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE UNIT ATMOS.	94.00 MMBTU/H				
		PM	9.0000 LB/H		BACT
		SO2	18.0000 LB/H	0.37% S IN FUEL	BACT
		NOX	36.0000 LB/H	2 STAGE + OFF-STOICH. COMB.	BACT
		CO	3.0000 LB/H	GOOD OPERATION	BACT
HEATER, CRUDE UNIT VACUUM	18.00 MMBTU/H				
		PM	2.0000 LB/H		BACT
		SO2	3.0000 LB/H	S IN FUEL 0.3%	
		NOX	7.0000 LB/H	2 STAGE + OFF-STOICH. COMB.	BACT
		CO	1.0000 LB/H	GOOD OPERATION	BACT
HEATER, VISBREAKER	44.00 MMBTU/H				
		PM	4.0000 LB/H		BACT
		SO2	8.0000 LB/H	S IN FUEL 0.3%	BACT
		NOX	17.0000 LB/H	2 STAGE + OFF-STOICH. COMB.	BACT
		CO	1.0000 LB/H		BACT

GOOD OPERATION

(CONTINUED) SWANN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, NAPHTHA REFORMER	50.00 MMBTU/H				
		PM	1.0000 LB/H		BACT
		SO2	0.3000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	11.0000 LB/H		BACT
				2 STAGE + OFF-STOICH. COMB.	
		CO	1.0000 LB/H		BACT
				GOOD OPERATION	
HEATER, NAPHTHA HYDRODESULFURIZ*	16.00 MMBTU/H				
		PM	0.3000 LB/H		BACT
		SO2	0.1000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	4.0000 LB/H		BACT
				2 STAGE + OFF-STOICH. COMB.	
		CO	0.3000 LB/H		BACT
				GOOD OPERATION	
HEATER, DISTILLATE HYDRODESULFU*	16.00 MMBTU/H				
		PM	0.3000 LB/H		BACT
		SO2	0.1000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	4.0000 LB/H		BACT
				2 STAGE + OFF-STOICH. COMB.	
		CO	0.3000 LB/H		BACT
				GOOD OPERATION	
BOILER, STEAM	29.00 MMBTU/H				
		PM	0.5000 LB/H		BACT
		SO2	0.2000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	7.0000 LB/H		BACT
				2 STAGE & STOICHIOMETRIC COMB	
		CO	0.6000 LB/H		BACT
				GOOD OPERATION	
EMERGENCY FLARE SYS					
		SO2	0.0100 LB/H		BACT
		NOX	0.2000 LB/H		BACT

(CONTINUED) SWANN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT, TANKER	VARIABLE				
		PM	14.0000 LB/H		BACT
		SO2	211.0000 LB/H		BACT
		NOX	64.0000 LB/H		BACT
		CO	1.0000 LB/H		BACT
RECOVERY UNIT, CLAUS SULFUR					
		SO2	14.0000 LB/H		BACT

NOTES ----------
SO2 EMISSIONS FROM ATMOSPHERIC HEATER, VACUUM HEATER, & VISBREAKER HEATER SHALL NOT EXCEED THE SPECIFIED EMISSION RATES ON A 2 4-HOUR ROLLING AVERAGE BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 200.00 MBPSD

COMPANY NAME/SITE LOCATION VIRGIN ISLANDS REFINERY CORP. ESTATE BETHLEHAM ST. CROIX, VI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NONE
DETERMINATION MADE BY EPA REGION II (AGENCY) ED NOWAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/04/81
ESTIMATED DATE OF START-UP-- 1985
(212)-264-8690 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, FOSSIL FIRED, 3	175000.00 BBL/D				
		CO	14.0000 T/YR	GOOD BOILER OPERATION	BACT
		VOC	3.0000 T/YR	GOOD BOILER OPERATION	BACT
		NOX	0.2000 LB/MMBTU GAS		BACT
			0.3000 LB/MMBTU OIL		
		PM	0.3520 LB/MMBTU		BACT
		SO2	20.0000 PPM H2S GAS		BACT
			0.3300 % S BY WT., OIL		
HYDROGEN PLANT					
		CO	105.0000 T/YR	GOOD BOILER OPER./NO FUEL OIL	BACT
		VOC	19.0000 T/YR	GOOD BOOILER OPER./NO FUEL OIL	BACT
		NOX	1088.0000 T/YR	STOICHIO. COMBST./NO FUEL OIL	BACT
		PM	0.3520 LB/MMBTU		BACT
		SO2	3.0000 T/YR	NO GAS<.1 GR/DSCF H2S	BACT

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS					
		CO	369.0000 T/YR	GOOD BOILER OPERATION	BACT
		VOC	72.0000 T/YR	GOOD BOILER OPER.	BACT
		NOX	0.3000 LB/MMBTU OIL		
			0.2000 LB/MMBTU ALT. FUELS		BACT
		PM	0.3520 LB/MMBTU		
		SO2	3683.0000 T/YR		BACT
FCC UNIT	175000.00 BBL/D			OIL<.33%S WT/ALT<.1GR/DSCF H2S	BACT
		CO	565.0000 T/YR		
		VOC	3247.0000 T/YR		NSPS
				GOOD BOILER OPER.	BACT
		NOX	0.3000 LB/MMBTU OIL		
			0.2000 LB/MMBTU ALT. FUELS		BACT
		PM	1.0000 LB/MLB COKE BURN		
			0.1000 LB/MMBTU SUPP. OIL		LAER
		SO2	79.0000 T/YR		
SULFUR RECOVERY PLANT				OIL<.33%S WT/ALT<.1GR/DSCF H2S	NSPS
		CO	29.0000 T/YR		
				GOOD HEATER OPERATION	BACT
		VOC	35.0000 T/YR		
				GOOD HEATER OPERATION	BACT
		NOX	0.3000 LB/MMBTU OIL		
			0.2000 LB/MMBTU, ALT.		BACT
		PM	0.3520 LB/MMBTU		
		SO2	365.0000 T/YR		BACT
				CLAUS SYS. W/ 3 UNITS	NSPS
PETROLEUM LIQUID STORAGE TANKS				OIL<.33S WT/ALT<.1GR/DSCF H2S	
		VOC	937.0000 T/YR		
				FLOATING ROOF TANKS	NSPS

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PUMPS, SEALS, VALVES, FLANGES					
MARINE LOAD & UNLOAD FACILITY		VOC	177.0000 T/YR		BACT
		VOC	64.0000 T/YR	SEALS	SIP
INCINERATOR, MULTI-CHAMBER		CO		NONE GOOD OPERATION	BACT
		NOX		NONE GOOD OPERATION	BACT
		PM	0.3000 LB/H		
API WASTE OIL SEPERATOR		VOC	436.0000 T/YR	FIXED COVER/FOAM SPHERES	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- BULK TERMINALS

COMPANY NAME/SITE LOCATION AMOCO OIL CO., GRANVILLE MILWAUKEE, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-03-80-41-064
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) ELIZABETH SPAETH (AGENCY CONTACT PERSON) (414)-257-4929 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/23/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TERMINAL	214494.00 MGAL GASOLI*	VOC	30.0000 MG/L	FLOAT ROOF & VAPOR RECOVERY SYS.	LAER 97.00
TERMINAL	71358.00 MGAL #2 OIL	VOC	80.0000 MG/L		
		VOC	30.0000 MG/L		LAER

NOTES ----------
OFFSET OBTAINED BY CLOSING JONES ISLAND TERMINAL, EXTRA EMISSIONS BANKED 41.55 TPY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- BULK TERMINALS

COMPANY NAME/SITE LOCATION ASHLAND PETROLEUM CO.
30TH & JONES ST.
LEXINGTON, KY 41015
KENTON COUNTY

DETERMINATION IS
PERMIT NO. C-81-37
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/01/81
ESTIMATED DATE OF START-UP--
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOTTOM FILL LOADING RACK	3000.00 GAL/MIN	VOC	80.0000 MG/L GROUND LOADING	CARBON ABSORPTION	

NOTES ----------
THIS PERMIT GRANTED UNDER A VOC BUBBLE REQUEST TO ALIEVATE RETROFITTING EXISTING TANKS W/FLOATING ROOFS. PERMIT N/A TO BACT/LA ER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- BULK TERMINALS 476000.00 BBL

COMPANY NAME/SITE LOCATION BAYTANK INC., HOUSTON SEABROOK, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8865
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/12/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS, 49	CAPACITY VA*	VOC	FLARING EMIS., SEE NOTE 2 MAT. W/>0.5 PSIA VAP. PRESS.	BACT 99.00
WASTE WATER SEPERATOR, SEE NOTE*		VOC	COVERS W/VENTS TO FLARES	BACT 99.00

NOTES ----------
NOTE 1 - WASTE WATER SEPARATOR INCLUDES 2 DECANTERS & DOUBLE SKIMMER SYS. NOTE 2 - ALSO MATERIALS WITH < 0.5 PSIA VAP. PRESS. BUT WITH ODOR OR TOXICITY EFFECTS ARE REQUIRED TO MEET THESE EQUIPMENT STANDARDS / TO USE ADSORBERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- STORAGE OF PETROLEUM LIQUIDS

COMPANY NAME/SITE LOCATION MCKESSON CHEMICAL CO. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SEE NOTE
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) BILL GIBBONS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/81
ESTIMATED DATE OF START-UP--
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRUM FILLING FACILITY		VOC	VAPOR RECOVERY LOOP	90.00

NOTES ----------
DRUM FILLING FACILITY USED FOR WHOLESALING VARIOUS CHEMICALS. CONSERVANTS INSTALLED ON SHORTAGE TANKS, TOTAL STORAGE CAPACITY 60000 GALLONS. NOTE - PERMIT # T79-78 THRU T79-83 & T78-068

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION ANR STORAGE CO. EXCELSIOR TWP, MI 49000

KALKASKA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 67-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/01/80
ESTIMATED DATE OF START-UP-- 1981
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, NAT. GAS, 2 EA	3750.00 HP	NOX	12.0000 G/HP-H RETARDED IGNITION	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION COLUMBIA GAS TRANSMISSION CORP. SUGAR GROVE, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 0123000137
DETERMINATION MADE BY OHIO EPA CO (AGENCY) GEORGE DEMIS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/13/81
ESTIMATED DATE OF START-UP--
(614)-864-3195 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS FIRED I. C. ENGINES					
		NOX	5.0000 G/HP-H	ENGINE DESIGN	
		CO	2.0000 G/HP-H	ENGINE DESIGN	
		VOC	0.3000 G/HP-H	ENGINE DESIGN	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION CRYSEN REFINING, WESTERN DIV. WOODS CROSS, UT

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DONALD ROBINSON (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAPTHA TANK, 2	10000.00 BBL	VOC		INTERNAL FLOATING ROOF	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER UT-0027

SOURCE TYPE CODE 5.11

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 22600.00 GAL/D

COMPANY NAME/SITE LOCATION DEPT. OF THE NAVY CORPUS CHRISTI, TX

NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3818
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/15/82
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LOADING RACK/STORAGE TANKS, 2	6000.00 BBL	VOC	NIL EMISSIONS DISPLACED VAPORS ROUTED TO FLARE	99.90

NOTES ----------
15% OF DISPLACED VAPORS ARE ASSUMED TO BE NOT COLLECTED DUE TO FUGITIVE LOSSES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 2000.00 MMCF/D

COMPANY NAME/SITE LOCATION NORTHERN ALASKAN PIPELINE , AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-03-09
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MAINLINE COMPRESSOR TURBINE					
		NOX	150.0000 PPM 80.0000 KG/H	DRY CONTROLS	BACT
REFRIG. COMPRESSOR TURBINE					
		NOX	150.0000 PPM 38.0000 KG/H	DRY CONTROL	BACT
ELECT. GEN. TURBINE					
		NOX	150.0000 PPM 15.0000 KG/H	DRY CONTROL	BACT
GLYCOL HEATER MISC.					
		NOX	43.0000 NG/J 4.0000 KG/H	LOW NOX BURNERS	BACT

NOTES -----
ABOVE LIMITS ARE FOR 1 COMPRESSOR STATION, 7 WILL BE BUILT ALONG PIPELINE. ALSO TOTAL LIMIT FOR EACH STATION OF 175 KG/HR OR 1 517 METRIC TONS PER YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 933.00 MBBL/D

COMPANY NAME/SITE LOCATION NORTHERN TIER , AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-14
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/14/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF

NOTES ----------
FOR PERMIT CONDITIONS, SEE ATTACHMENT, ALL ARE BASED ON TECHNOLOGY AND ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 55000.00 HP

COMPANY NAME/SITE LOCATION AMERADA HESS
P.O. BOX 2040 TULSA, TX 74012

GAINES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-328
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/14/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, NAT. GAS, COMPERSSOR, 3*	1600.00 HP				
		NOX	10.6000 G/HP-H	ADJUSTED AIR FUEL RATIO	BACT
		VOC	53.0000 T/YR	NORMAL EQUIP. OPERATION	BACT
		CO	1.4000 G/HP-H	NORMAL EQUIP. OPERATION	BACT
		SO2	0.2500 T/YR	NORMAL EQUIP. OPERATION	BACT
		PM	TRACE	NORMAL EQUIP. OPERATION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS SEE NOTE

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION CO. , ND
BILLINGS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) GARY HELBLING (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/12/83
ESTIMATED DATE OF START-UP--
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK	SEE NOTE	SO2	SEE NOTE CLAUS UNIT & CBA	BACT 98.60

NOTES ----------
THE PLANT IS TO BE CONSTRUCTED IN THREE STEPS. THE PLANT WILL PROGRESS FROM A 25 MMCF/D PLANT WITH AN EMISSION LIMIT OF 62.25 LB/H SO2, TO A 50 MMCF/D PLANT WITH AN EMISSION LIMIT OF 124.5 LB/H SO2 & THEN TO A 100 MMCF/D PLANT WITH AN EMISSION LIMIT OF 249 LB/H SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 260.00 MMCF/D

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
P.O. BOX 310 CARTHAGE, TX
PONALA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-206
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/11/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE	800.00 HP	NOX	19.2000 LB/H 24.0000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
I. C. ENGINE, 2	1050.00 HP EA	NOX	25.2000 LB/H EA 24.0000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
I. C. ENGINE, 2	730.00 HP EA	NOX	16.4000 LB/H 24.0000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT

NOTES ----------
MODIFICATION -- INCREASED CAPACITY FROM 220 MMCFD TO 260 MMCFD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 3.09 MMCF/D

COMPANY NAME/SITE LOCATION CRYSTAL EXPLORATION CO.,SECTION 18,T9N,* MARATHON, MI
LAPEER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 238-80E
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/30/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SWEETENING FACILITY	3.09 MMCF/D	SO2	SEE NOTE 2 STAGE CAUSTIC SCRUBBER	96.00

NOTES ----------
RULE 403(4) OF THE RULES OF THE MICHIGAN APC COMMISSION REQUIRES BACT ON ALL NEW SWEETENING FACILITIES. DETERMINATION IS BASED ON A DETAILED ECONOMIC ANALYSIS AND EXPECTED EFFICIENCIES OF VARIOUS CONTROL SYSTEMS.
THE LIMIT IN THIS CASE IS A 96% EFFICIENT CONTROL DEVICE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCF/D

COMPANY NAME/SITE LOCATION DELHI GAS PIPELINE CORP. ATHENS, TX
HENDERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8628
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/29/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS PROCESSING PLANT - SULFUR	37.70 LT/D				
		SO2	92.9000 T/YR 400.0000 PPM		
GAS PROCESSING PLANT - GAS	60.00 MMCF/D			3 STAGE CLAUS PLANT/SCOT TAIL GAS	99.70
		H2S	1.3000 T/YR 10.0000 PPM		

NOTES ----------
CONCENTRATIONS OF SO2 AND H2S ARE CALCULATED ON A DRY, OXYGEN FREE BASIS AT INCINERATOR EXIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 11.50 MMCF/D

COMPANY NAME/SITE LOCATION ENDERCO GARLAND, AR
MILLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-704-A
DETERMINATION MADE BY ARKANSAS DEP (AGENCY) CECIL HARRELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/23/83
ESTIMATED DATE OF START-UP-- 1983
(501)-562-7444 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
AMINE SWEETENING CLAUS	11.50 MMCF/D				
		SO2	155.0000 LB/H	CLAUS PLANT	BACT 90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCF/D N. GAS

COMPANY NAME/SITE LOCATION EXXON CO., U.S.A.
6 MI. N. GILMER W. HWY 271 GILMER, TX
UPSHAW COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-362
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/82
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIETHENOLAMINE (DEA) REGEN.	4.50 MMBTU/H	SO2	0.0004 LB/MMBTU	NAT. GAS AS FUEL	
GLYCOL RECONCENTRATOR	0.72 MMBTU/H	SO2	0.0003 LB/MMBTU	NAT. GAS AS FUEL	
FLARE		SO2	129.3500 LB/H	SMOKELESS,NO OTHER TECH. FEAS.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCF/D

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP. NEAR ARTESIA, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-389
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/10/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H	LOW NOX ENGINE	
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H	LOW NOX ENGINE	
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TESTS, EPA REF. METHOD 20, WERE PERFORMED ON ALL THREE ENGINES & THE ACTUAL EMISSIONS WERE 2.01 G/HP-H, 2.6 G/HP-H, & 3.28 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION MAPCO PRODUCTION CO. NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-NM-576
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/14/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACID GAS FLARE	7.50 MMSCF/F	SO2	703.0000 LB/H DIETHANOL AMINE UNIT	
ENGINE, I.C. COMPRESSOR	446.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
ENGINE, I.C. COMPRESSOR	670.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
ENGINE, I.C. COMPRESSOR	507.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	
ENGINE, I.C. COMPRESSOR	278.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO	

NOTES ----------
STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON ALL FOUR ENGINES & EMISSIONS WERE 7.1 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILADELPHIA GAS WORKS PHILADELPHIA, PA
PHILADELPHIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 78PA03
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/15/79
ESTIMATED DATE OF START-UP--
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS	110.00 MBTU/H				
		PM	5.4000 LB/H		BACT
		SO2	75.0000 LB/H	STRETFORD LOW S FUEL	BACT
		NOX	74.0000 LB/H		BACT
STORAGE TANKS	1.00 MMBBL/YR				
		VOC	91.0000 T/YR	DBL SEALS, FLOAT. ROOF TANKS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 30.00 MMCF/D

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. , ND
WILLIAMS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) GARY HELBING (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/25/82
ESTIMATED DATE OF START-UP-- 1983
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK	30.00 MMCF/D	SO2	93.3000 LB/H	CLAUS PLANT	BACT 98.50

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. MALJAMAR, NM
HWY 126 15 MI. S. OF MALJAMAR LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-389
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BENHAM (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR, 2 EA	585.00 HP EA	NOX	11.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------
2 INTERNAL COMBUSTION COMPRESSOR ENGINES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. PHILLIPS BUILDING — BARTLESVILLE, TX 74009

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-314
DETERMINATION MADE BY EPA REGION VI (AGENCY) — JOE WINKLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/30/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR ENGINES	650.00 HP EA	NOX	12.4000 G/HP-H	AIR/FUEL RATIO	BACT
TURBINE COMPRESSOR ENGINES	3000.00 HP EA	NOX	1.8000 G/HP-H	NORMAL OPERATION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PROCESS EQUIPMENT CORP. MAYFIELD, MI
GRAND TRAVERSE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 813-81
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/23/82
ESTIMATED DATE OF START-UP-- 1982
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SOUR GAS SWEETENER	10.00 MMSCFD	SO2	81.1000 LB/MMSCF	CLAUS UNIT	85.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 39.00 MMBTU/H

COMPANY NAME/SITE LOCATION REPUBLIC REFINING CO. JOHNS, MS

RANKIN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-MS-037
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/03/81
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS PROCESSING-SULFUR RECO*	50.00 MMCF/D	SO2	0.0030 LB/H EA	TREATED NAT. GAS FOR BOILERS	BACT

NOTES ----------
TWO BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 117.00 MMSCFD

COMPANY NAME/SITE LOCATION SID RICHARDSON CARBON & GASOLINE CO. KERMIT, TX
WINKLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 2724
DETERMINATION MADE BY TEXAS ACB (AGENCY) LES MONTGOMERY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/14/81
ESTIMATED DATE OF START-UP-- 1981
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NATURAL GAS TREATING PLANT	117.00 MMSCFD				
		SO2	816.0000 T/YR		
				SELECTOX S RECOV. UNIT	95.00

NOTES ----------
SELECTOX SRU CATALYTICALLY OXIDIZES HYDROGEN SULFIDE EXTRACTED FROM RAW NATURAL GAS TO ELEMENTAL SULFUR. THIS UNIT IS A THREE STAGE PROCESS ACHIEVING AT LEAST 95% CONVERSION TO H2S. THE REMAINDER IS INCINERATED TO SO2. THIS IS A SMALL UNIT IN AN ISOLATED LOCATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 10.00 MMCF/D

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO.
20 MI. NW OF TATUM VADA, NM 88267
LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-156M-1
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACID GAS FLARE	10.00 MMSCFD				
		SO2	703.0000 LB/H		
			0.0016 LB/SCF		
				DIETHANOL AMINE UNIT	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCF/D

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO. , ND BILLINGS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) TERRY O'CLAIR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/12/83
ESTIMATED DATE OF START-UP--
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK		SO2	534.0000 LB/H	CLAUS & CBA	BACT 98.60

NOTES ----------
THIS IS A MAJOR MODIFICATION OF AN EXISTING SOURCE, THE EXISTING SOURCE CURRENTLY PROCESSES 20 - 24 MMCF/D OF GAS WITH AN EMISSION RATE LIMITED TO 269 LB/H. AFTER EXPANSION THE NEW SO2 EMISSION RATE WILL BE 534 LB/H & CAN HANDLE ABOUT ANOTHER 30 MMCF/D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 130.00 T/YR

COMPANY NAME/SITE LOCATION B.A. CHILDS , UT

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MIN 083182-5T
DETERMINATION MADE BY UTAH BAQ (AGENCY) DON ROBINSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/08/82
ESTIMATED DATE OF START-UP-- 1983
(801)-533-6108 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRUM DRYER	130.00 T/H				
		PM	0.0200 GR/DSCF 1.4900 LB/H	VENTURI SCRUBBER	
		VE	20.0000 % OPACITY		99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER UT-0030

SOURCE TYPE CODE 5.13

SOURCE TYPE/SIZE--- ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING

COMPANY NAME/SITE LOCATION KERNRIDGE OIL CO. , CA
BELRIDGE OIL FIELD KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-26
DETERMINATION MADE BY EPA REGION IX (AGENCY) DON HARVEY (AGENCY CONTACT PERSON) (415)-974-8223 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/14/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN., 11 EA	50.00 MMBTU/H				
		SO2	0.0650 LB/MMBTU		
			1.2000 % S FUEL OIL		
				SO2 SCRUBBER W/ EDUCTOR/VENTURI	95.00
		NOX	0.2000 LB/MMBTU		BACT
				LOW NOX BURNERS EXCESS O2 CONTROLLERS	50.00
		PM	0.0570 LB/MMBTU		LAER
				SO2 SCRUBBER W/ EDUCTOR/VENTURI	50.00
		PM	0.0100 LB/MMBTU		LAER
				SCRUBBER W/ ESP SECTION	90.00
OIL WELL VENTS - EXISTING					
		VOC		NONE	
				VAPOR RECOVERY	85.00
OIL WELL VENTS - NEW					
		VOC		NONE	
				SHUT IN WELLS	100.00

NOTES ----------
PM EMISSIONS FROM ONE OF THE UNITS WILL BE CONTROLLED WITH AN ESP WHICH IS AN INNOVATIVE TECHNOLOGY AS APPLIED TO THERMALLY EN HANCED OIL RECOVERY (TEOR).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION AMINOIL USA, INC. HUNTINGTON BEACH, CA 92648

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-9 LA-82-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/04/82
ESTIMATED DATE OF START-UP--
(415)-974-8240 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE & WASTE HEAT BOILER	6464.00 KW				
		SOX	14.0000 LB/H	FGD SYSTEM	BACT 95.00
		BE	0.0000 LB/H	WET SCRUBBER & FGD SYSTEM	99.00

NOTES ----------
36.0 BBLS/H OF 1.34% SULFUR CRUDE OIL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION BEREY HOLDING CO.
MIDWAY-SUNSET OIL FIELD , CA KERN COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-17
DETERMINATION MADE BY EPA REGION IX (AGENCY) DON HARVEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(415)-974-8223 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, ROTARY SCREW,2 EA	500.00 HP	VOC	690.0000 PPM (AS CARBON)	INCINERATION IN STEAM GENERATOR AT 2800 F	95.00
COMPRESSORS, RECIP. BOOSTER, 2 *		VOC	10.5000 LB/H 3% 02		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.
P.O. BOX 5355 BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-8 SJ-79-32
DETERMINATION MADE BY EPA REGION IX (AGENCY) BOB BAKER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/16/82
ESTIMATED DATE OF START-UP--
(415)-974-8215 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 9	390.00 GAL/H, EA				
		SO2	18.8000 LB/H	WET SCRUBBERS 1.5% S LIMIT ON FUEL OIL	BACT 90.00
		PM	3.6000 LB/H	WET SCRUBBERS	LAER 50.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 426.00 BBL/D

COMPANY NAME/SITE LOCATION GEOKINETICS INC., OIL SHALE 40 MILES S. VERNAL, UT
UINTAH COUNTY

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/13/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR	650.00 HP				
		NOX	38.9000 LB/H	DESIGN	BACT
		VE	20.0000 % OPACITY		
INCINERATOR	100.00 BBL/D				
		NOX	45.1000 LB/H	NONE	BACT 0.00
		SO2	135.3000 LB/H	NONE	BACT 0.00
		VE	20.0000 % OPACITY		

NOTES ----------
3.5 YR OPERATION, LIMITED EXPERIMENTAL VARIANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 225.00 MMSCFD

COMPANY NAME/SITE LOCATION MOBIL OIL EXPLORATION , AL MOBILE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AL-078
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/16/81
ESTIMATED DATE OF START-UP--
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS SULFUR REMOVAL	225.00 MMSCFD				
		SO2	200.0000 LB/H EA	CLAUS AND SCOT TAIL GAS REMOVAL	BACT 99.86
DIESEL ENGINES, 4 RIGS	1100.00 HP/ENGINE				
		CO	9.4000 LB/H-RIG	NONE	
		SO2	7.3000 LB/H-RIG	LOW S FUEL	
		NOX	71.6000 LB/H-RIG	NONE	
		PM	3.4000 LB/H-RIG	NONE	
SUPPLEMENTAL BOILER	50.00 MMBTU/H				
		NOX	0.2000 LB/MMBTU	STAGED COMBUSTION & LOW EXCESS AIR	54.00
		SO2	1.0000 LB/H	LOW S FUEL	
SULFUR DEPOT BOILER	5.00 MMBTU/H				
		NOX	0.2000 LB/MMBTU	STAGED COMBUSTION & LOW EXCESS AIR	37.00
		SO2	2.2000 LB/H	LOW S FUEL	

(CONTINUED) MOBIL OIL EXPLORATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE GENERATOR, GAS-FIRED	7.50 MW				
		NOX	175.0000	PPM BY VOL. NONE	
		SO2	1.0000	LB/H LOW S FUEL	
PLATFORM GENERATORS, 5 EA., GAS*	661.00 HP/ENGINE				
		NOX	146.0000	LB/H-PLATFORM NONE	
		CO	146.0000	LB/H-PLATFORM NONE	
		SO2	1.0000	LB/H-PLATFORM LOW S FUEL	

NOTES ----------
DRILLING PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 1.00 MBBL/D

COMPANY NAME/SITE LOCATION OXY-LOGAN WASH MODIF.1980 NEAR DE BEQUE, CO

GARFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/27/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, ETC					
		CO	2.0000 LB/H		
		VOC	3.0000 LB/H		BACT
				CONDENSOR	BACT
		NOX	52.0000 LB/H		
				CONDENSOR	BACT
		PM	7.0000 LB/H		60.00
				DUST CONTROL	BACT
RETORT	1000.00 BBL/D	SO2	31.0000 LB/H		50.00
		CO	3640.0000 LB/H		
		VOC	154.0000 LB/H		BACT
				CONDENSOR	BACT
		HS	376.0000 LB/H		60.00
					BACT

NOTES ----------
OPERATION OVER IN 1982

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER CO-0009

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION PARAHO DEVELOPMENT CORP. , UT
UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DONALD ROBINSON (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/16/82
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOLTING, SCALING, HANDLING, DRI*	75000.00 T/D SHALE				
		FUG*			
				WATER SPRAYING	50.00
BLASTING	54000.00 LB ANFO/D				
		CO			
		NOX			
		FUG*			
				SETTLING	50.00
CRUSHING	75000.00 T/D				
		PM	0.0150	GR/DSCF	
				BAGHOUSE	99.90
IN MINE TRANSFER	75000.00 T/D				
		PM	0.0150	GR/DSCF	
				BAGHOUSE	99.00
MINE MOBILE EQUIPMENT	11730.00 GAL/D DIESE*				
		PM	11.0000	LB/MMGAL	
				SETTLING	50.00
		NOX	385.2000		
				CATALYTIC CONVERTER	10.00
		SO2	31.2000		
		VOC	2.8000	LB/MMGAL	
				CATALYTIC CONV.	90.00
		CO	4.5000		

CATALYTIC CONV.	95.00

(CONTINUED) PARAHO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MATERIAL HANDLING	75000.00 T/D				
		PM	0.0100	GR/DSCF	
				BAGHOUSE	99.00
		PM	0.0050	GR/DSCF	
				BAGHOUSE	99.00
		PM	0.0200	GR/DSCF	
				WET SCRUBBERS	99.00
STORAGE PILES	VARIOUS SIZ*				
		PM			
				WATER SPRAYS	50.00
HYDROGEN PLANT REFORMER FURNACE	800.00 MMBTU/H				
		PM	15.0000	LB/MMCF	
		CO	17.0000	LB/MMCF	
		VOC	3.0000	LB/MMCF	
		NOX	161.0000	LB/MMCF	
				LOW NOX BURNERS	30.00
		SO2	0.6000	LB/MMCF	
		PM	0.0150	LB/MMBTU	
		CO	0.0170	LB/MMBTU	
		VOC	0.0030	LB/MMBTU	
		NOX	0.1610	LB/MMBTU	
				LOW NOX BURNERS	30.00
		SO2	9.8300	LB/H	
				HOLMES STRETFORD UNIT	99.60
HYDROTREATER FEED FURNACE	41.25 MMBTU/H NG				
		PM	15.0000	LB/MMCF	
		CO	17.0000	LB/MMCF	
		VOC	3.0000	LB/MMCF	
		NOX	161.0000	LB/MMCF	
				LOW NOX BURNERS	30.00
		SO2	0.6000	LB/MMCF	
POWER GENERATION FACILITY	2110.00 MMBTU/H				
		PM	0.0150	LB/MMBTU	
		CO	0.0170	LB/MMBTU	
		VOC	0.0030	LB/MMBTU	
		NOX	0.2500	LB/MMBTU	NSPS
				WATER WASH OF RETORT OFF GAS TO REMOVE NH3	97.00
		NOX	0.2000	LB/MMBTU	NSPS
				WATER WASH OF RETORT OFF GAS TO REMOVE NH3	97.00

SO2	0.1400	LB/MMBTU REMOVE H2S BEFORE COMBUST.	99.60

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PACKAGE BOILER	14.50 MMBTU/H #2 *				
		PM	2.0000 LB/MMGAL		
		SO2	0.5000 % S CONTENT		
		CO	5.0000 LB/MMGAL		
		VOC	1.0000 LB/MMGAL		
		NOX	22.0000 LB/MMGAL		
STORAGE TANKS, 4	53000.00 BBL				
		VOC			
				INTERNAL FLOATING ROOF & PRIMARY SEAL	95.00
CRUDE SHALE OIL STORAGE TANKS, 7	150000.00 BBL				
		VOC			
				EXT. FLOAT. ROOF W/PRIMARY & SEC. SEAL	95.00

NOTES ----------
.005 PM LIMITATION IS FOR LARGER BAGHOUSES ON CRUSHERS. PWR. GEN. - 3 STACKS. GAS TURBINE & WASTE HEAT BOILER EACH. BOILERS PR
OVIDE 36.73% HEAT INPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 2.00 MBBL/D

COMPANY NAME/SITE LOCATION RIO BLANCO OIL SHALE-#1 NEAR RANGELY, CO

RIO BLANCO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/20/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 BOILERS	198.00 MMBTU/H				
HEATER	5.00 MMBTU/H	NOX	39.6000 LB/H		BACT
LURGI RETORT	2000.00 BBL/D OIL S*	NOX	1.0000 LB/H		BACT
		NOX	127.0000 LB/H		BACT
		SO2	18.0000 LB/H	RETENTION	BACT
		PM	39.8000 LB/H	ESP	BACT 99.80
ORE CONV-STKPILE	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
ORE TRANSFER	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
ORE LOADOUT	4400.00 T/D SHALE	PM	0.0800 LB/H	BAGHOUSE	BACT 99.00

(CONTINUED) RIO BLANCO OIL SHALE-#1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRIM. CRUSH/SCR	4400.00 T/D SHALE	PM	0.2400 LB/H	BAGHOUSE	BACT 99.00
PROC SHALE TRANS.,FEED	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
PROC SHALE TRANS. DISP	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
SEC. CRUSH/SCR	4400.00 T/D SHALE	PM	0.3200 LB/H	BAGHOUSE	BACT 99.00
PROD. GAS INC/SCRUB	70.00 MMBTU/H	SO2	9.7000 LB/H	SCRUBBER	BACT 80.00
		NOX	24.0000 LB/H		

NOTES ----------
THREE YEAR OPERATION PLANNED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 50.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS TAR SANDS, LTD LAPRYOR, TX
MAVERICK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9075
DETERMINATION MADE BY TEXAS ACB (AGENCY) JAMES CROCKER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/24/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR	50.00 MMBTU/H				
		PM	0.0940 LB/MMBTU	FABRIC FILTER	99.30
		SO2	1.2000 LB/MMBTU	LIMESTONE INJECTION	78.00
COAL & LIMESTONE STORAGE/HANDLI*					
		PM	1.3000 LB/H	DUST CONTROL SYSTEM	

NOTES ----------
THIS IS A COAL FIRED SYSTEM. EMISSIONLIMITS ARE BACT, DETERMINED BY TECHNOLOGY & ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 45.00 MBBL/D

COMPANY NAME/SITE LOCATION TOSCO OIL SHALE-1981 NEAR BONANZA, UT
UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/09/81
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) (303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 AUX BOILERS					
		CO	2.9000 LB/H		BACT
		NOX	18.0000 LB/H	DESIGN	BACT
		PM	3.2000 LB/H		BACT
		SO2	8.0000 LB/H	LOW S COAL	BACT
FEED HEATER					
		CO	1.1000 LB/H		BACT
		NOX	7.0000 LB/H		BACT
		PM	1.2000 LB/H		BACT
		SO2	3.1000 LB/H		BACT
MINE VENTS					
		PM	10.6000 LB/H		BACT
			14.9000 LB/H	SETTLING	
OIL REBOILER					
		CO	1.5000 LB/H		BACT
		NOX	9.1000 LB/H		BACT
		PM	1.6000 LB/H		BACT
		SO2	4.0000 LB/H	LOW S FUEL	BACT

(CONTINUED) TOSCO OIL SHALE-1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ORE STORAGE					
		PM	4.7000 LB/H	BAGHOUSE	BACT 99.70
RECL TUNNEL					
		PM	6.2000 LB/H	BAGHOUSE	BACT 99.70
SEC CRUSHER					
		PM	36.6000 LB/H	BAGHOUSE	BACT 99.70
SPENT SHALE STOR	45.00 MBBL/D				
		PM	7.9000 LB/H	WATER	BACT 50.00
2 SO2 REC.PLANTS					
		SO2	92.2000 LB/H	CLAUS &TAILGAS	BACT 99.60
4 REFORM FURN					
		CO	10.8000 LB/H		BACT
		NOX	90.3000 LB/H		BACT
		PM	12.0000 LB/H		BACT
		SO2	30.1000 LB/H	LOW S FUEL	BACT
6 ELUTRIATORS					
		NOX	15.8000 LB/H		BACT
		PM	42.0000 LB/H	SCRUBBER	BACT 99.99
		SO2	5.3000 LB/H		BACT
6 PROCESS SHALE WET					
		PM	43.2000 LB/H	SCRUBBER	BACT 98.40

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
6 PREHEAT STK					
		VOC	303.0000 LB/H		BACT
				INCINERATOR	85.00
		NOX	1588.2000 LB/H		BACT
		PM	90.0000 LB/H		BACT
				SCRUBBER	99.99
		SO2	62.5000 LB/H		BACT
				ABSORPTION	95.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 10.00 MBBL/D

COMPANY NAME/SITE LOCATION UNION OIL SHALE #1 NEAR PARACHUTE, CO

GARFIELD COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/27/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H2 CHG HTR	24.00 MMSCFD				
		NOX	2.8000 LB/H DESIGN		BACT
DEARSENITER PURGE HTR					
		NOX	1.8000 LB/H DESIGN		BACT
DEARSENITER CHARGE HTR					
		NOX	2.3000 LB/H DESIGN		BACT
FRACT CHG HTR					
		NOX	2.5000 LB/H DESIGN		BACT
REFORMER FURN					
		NOX	53.1000 LB/H DESIGN		BACT
STEAM BOILER					
		NOX	12.0000 LB/H DESIGN		BACT 99.90

(CONTINUED) UNION OIL SHALE #1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR REC.UNIT	12.00 T/D				
		SO2	300.0000 PPM		BACT
			1.9000 LB/H		
				CLAUS&TAIL GAS	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 106000.00 BPSD

COMPANY NAME/SITE LOCATION WHITE RIVER SHALE OIL CORP. BONANZA, UT

UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MAJ 053082-IT
DETERMINATION MADE BY UTAH BAQ (AGENCY) CARL BROADHEAD (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/82
ESTIMATED DATE OF START-UP-- 1988
(801)-533-6108 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
IN-MINE PRIMARY CRUSHING	89000.00 TPSD	PM		WET SUPPRESSION	0.08
CRUSHING & SCREENS	176000.00 TPSD	PM	0.0200 GR/DSCF	BAGHOUSE	99.70
MINE CONVEYOR SURGE BIN	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70
MINE CONVEYOR TRANSFER POINTS	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70
FEED TO STORAGE SILOS	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70
SURFACE CRUSHING & SCREENS	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FINES CONVEYOR, POINTS TRANSFER	900.00 TPSD				
		VE	20.0000	% OPACITY	
CONVEYORS				WET SUPPRESSION	80.00
		PM	0.0130	GR/DSCF	
UNION RETORT SILO FEED	46400.00 TPSD			FULLY COVERED	90.00
		PM	0.0130	GR/DSCF	
SUPERIOR RETORT SILO FEED	112000.00 TPSD			BAGHOUSE	99.70
		PM	0.0130	GR/DSCF	
TOSCO RETORT SILO FEED	18500.00 TPSD			BAGHOUSE	99.70
		PM	0.0130	GR/DSCF	
UNION PROCESSED CONVEYOR SHALE	39550.00 TPSD			BAGHOUSE	99.70
		VE	20.0000	% OPACITY	
				FULLY COVERED CONVEYORS	99.00
SUPERIOR PROCESSED CONVEYOR SHA*	84000.00 TPSD			20% MOISTURE	
		VE	20.0000	% OPACITY	
				FULLY COVERED CONVEYORS	99.00
MAIN ACCESS ROADS				20% MOISTURE	
		PM			
				PAVE	95.00
2ND LIGHT DUTY ROADS				PAVING	
		PM		MINIMIZE	
				CHEMICAL SUPPRESSION	75.00

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TOSCO PROCESSED CONVEYOR SHALE	15000.00 TPSD				
		PM		MINIMIZE	
				20% MOISTURE COVERED CONVEYORS	99.00
PROCESSED SHALE CONVEYOR TRANSF*	149500.00 TPSD				
		VE	20.0000	% OPACITY	
				15 % MOISTURE ENCLOSED	99.00
PROCESSED SHALE DISPOSAL	149500.00 TPSD				
		PM		MINIMIZE	
				CHEM. DUST SUPPRES. COMPACT.,REVEG.	85.00
LOAD IN	149500.00 TPSD				
		VE	20.0000	% MINIMIZE	
				15% WATER	80.00
GROOMING	112.00 SCRAPER H/D				
		VE	20.0000	% OPACITY	
				WATERING	50.00
WIND EROSION	30.00 ACRE				
		PM		MINIMIZE	
				COMPACT. REVEG. & CHEM. DUST SUPPRES.	85.00
LOAD IN, RAW SHALE STOCKPILE	5000.00 TPSD				
		PM		MINIMIZE	
				LOWERING WELL	75.00
LIVE STORAGE WIND EROSION, RAW *	175000.00 T				
		PM		MINIMIZE	
				WATER SPRAYS	50.00
GROOMING, RAW SHALE STOCKPILE	5000.00 TPSD				
		PM		MINIMIZE	
				WATER SPRAYS	50.00
DEAD STORAGE WIND EROSION, RAW *	2.80 MMT				

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... % BASIS ... PCT EFF
PHASE III-UNION B RECYCLE GAS H*	960.00 MMBTU/H				
		PM	0.0210	LB/MMBTU	
			5.0000	LB/H STACK	
		SO2	0.0230	LB/MMBTU	
			5.5000	LB/H STACK	
				TREATED GAS & UPGRADED SHALE OIL	
		NOX	0.0220	LB/MMBTU	
			53.1000	LB/H STACK	
				LOW NOX BURNERS	
PHASE III - HYDRO TREATER REACT*	150.00 MMBTU/H				
		PM	0.0200	LB/MMBTU	
			2.6000	LB/H STACK	
		SO2	0.1600	LB/MMBTU	
			10.0000	LB/H STACK	
				CLEANED & TREATED HIGH BTU FUEL GAS	
		NOX	0.2600	LB/MMBTU	
			39.0000	LB/H STACK	
TOSCO PREHEAT & BALL HEATERS	479.00 MMBTU/				
		PM	0.0240	GR/DSCF	
			22.5000	LB/H STACK	
				VENTURI SCRUBBER	99.50
		SO2	0.0020	GR/DSCF	
			0.5000	LB/H STACK	
				TREATED FUELS	50.00
		NOX	0.2200	GR/DSCF	
			51.9000	LB/H STACK	
				LOW-NOX BURNERS	
BOILER & POWER PLANTS (3 STK)	2438.00 MMBTU/H				
		PM	0.0300	LB/MMBTU	
			73.2000	LB/H	
		SO2	0.0700	LB/MMBTU	
			166.9000	LB/H	
				FGD	80.00
				CLEANED & TREATED FUEL GAS, UPGRADED SHALE OIL	
		NOX	0.2000	LB/MMBTU	
			487.5000	LB/H	

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H2 PLANT REFORMER FURNACE	2058.00 MMBTU/H				
		PM	0.2000 LB/MMBTU		
			25.8000 LB/H		
		SO2	0.0070 LB/MMBTU		
			9.0000 LB/H		
				CLEANED, TREATED & UPGRADED FUELS	
		NOX	0.2100 LB/MMBTU		
			267.8000 LB/H		
				LOW-NOX BURNERS	25.00

NOTES ----------
THE FEASIBILITY APPROVAL ORDER IS BASED ON BACT AS OF 1982. THIS IS A PHASE CONSTRUCTION PROJECT. EACH UNIT OF EACH PHASE WILL BE PERMITED BASED ON THE "THEN CURRENT" BACT. TPSD = TON PER STREAM DAY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 306.00 MMGAL/YR

COMPANY NAME/SITE LOCATION SIGMOR PIPELINE CO. SAN ANTONIO, TX

BEXAR COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 6348
DETERMINATION MADE BY TEXAS ACB (AGENCY) SAM CROWTHER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/27/78
ESTIMATED DATE OF START-UP-- 1979
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GASOLINE LOADING 3 RACKS (12 SP*	306.00 MMGAL/YR				
		VOC	23.6000 T/YR		AP42
			0.1250 LB/MGAL VOC		
				CARBON ADSORPTION	97.50
DIESEL/KERO LOADING	153.00 MMGAL/YR				
		VOC	14.1000 T/YR		AP42
				BOTTOM LOADING (SEE NOTE)	0.00
STORAGE TANKS (7)	217.00 MGAL				
		VOC	25.0000 T/YR		AP42
				INT. FLOAT COVERS, WHITE TANKS	97.00
FUGITIVE VOC					
		VOC	12.0000 T/YR		
				NONE	0.00

NOTES ----------
CARBON ADSORPTION UNIT PURCHASE PRICE =$240,000 NOTE - BOTTOM LOADING IS CONSIDERED UNCONTROLLED, FUGITIVE VOC ESTIMATED ONLY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 2000.00 HP EA,NAT. GAS, 3

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO. CARTHAGE, TX
PANOLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X1480
DETERMINATION MADE BY TEXAS ACB (AGENCY) JIM CARAWAY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/07/80
ESTIMATED DATE OF START-UP-- 1981
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR COMPRESSOR ENGINE	2000.00 HP	NOX	4.2000 G/BHP-HR	TURBOCHARGED	

NOTES ----------
SUPERIOR TURBOCHARGED "CLEAN BURN" 2000 IP ENGINE, MODEL 12 SGTA, SN 281319. ENGINE SAMPLED BY EPA --APPROVED METHOD 20 ON 3-2 5-82. NOX EMISS. BASED ON TEST RESULTS WERE .782 G/BHP-HR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION BEAR CREEK STORAGE BIENVILLE, LA BIENVILLE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-LA-85
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/79
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR, 4	7000.00 HP EA	NOX	11.7000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	1.4000 G/HP-H	AIR/FUEL RATIO	BACT
GAS HEATERS, 3	UNKNOWN	NOX	2.1000 LB/H	AIR/FUEL RATIO	BACT
REGENERATOR HEATERS, 3	UNKNOWN	NOX	0.4000 LB/H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 525600.00 MMGAL/YR

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. , UT
DAVIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DONALD ROBINSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/08/82
ESTIMATED DATE OF START-UP-- 1982
(801)-533-6108 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SEPARATOR	525.60 MMGAL/YR	VOC	STEEL COVER-TOTAL	95.00

NOTES ----------
AIR TIGHT STEEL COVER PLATES OVER THE ENTIRE SEPARATOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS, P.O. BOX 1087, COLORADO SPRINGS, OK 80944

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-358
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOE WINKLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	2700.00 HP				
		NOX	0.0010 G/HP-H	TURBOCHARGED CLEAN BURN	BACT
		CO	0.0010 G/HP-H	EFFICIENT COMBUSTION	BACT
		SO2	0.0010 G/HP-H	EFFICIENT OPERATION	BACT
		VOC	0.0010 G/HP-H	EFFICIENT COMBUSTION	BACT
		PM		EFFICIENT COMBUSTION	BACT
EMERGENCY GEN.	370.00 HP				
		NOX	10.9000 G/HP-H	NORMAL OPERATION	BACT
		CO	1.4000 G/HP-H	NORMAL OPERATION	BACT
		SO2	0.0010 G/HP-H	NORMAL OPERATION	BACT
		VOC	0.8400 G/HP-H	NORMAL OPERATION	BACT
		PM		NORMAL OPERATION	BACT

(CONTINUED) COLORADO INTERSTATE GAS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	2.60 MMBTU/H				
		NOX	0.3200 LB/H	NORMAL OPERATION	BACT
		CO	0.0500 LB/H	NORMAL OPERATION	BACT
		SO2	0.0020 LB/H	NORMAL OPERATION	BACT
		VOC		NORMAL OPERATION	BACT
		PM	0.0130 LB/H	NORMAL OPERATION	BACT

NOTES ----------
OPERATED ONLY DURING POWER OUTAGES. BOILER OPERATED ONLY DURING COLD WEATHER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION HOUSTON PIPE LINE CO. HOUSTON, TX 77001
HOUSTON NAT. GAS BLDG 14TH FL.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-313
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, 4 TURBO.	2400.00 HP EA	NOX	60.8000 LB/H 11.5000 /HP-H	AIR/FUEL RATIO CONTROL	BACT
DEHYDRATORS, 2	1.25 MMBTU/H EA	NOX	0.1500 LB/H 0.1200 LB/MMBTU	COMBUST. CONTRL, EFF. DESIGN	BACT

NOTES ----------
EACH OF THE I.C. ENGINES WERE LIMITED TO 0.65 G/HP-H FOR CO, HOWEVER, POLLUTANT WAS NOT REVIEWED UNDER PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION OASIS PIPELINE CO. HOUSTON, TX 77001
1200 TRAVIS, BOX 1188

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/06/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	1350.00 HP EA				
		NOX	6.8600 G/HP-H		BACT
				LOW EX. AIR -- AIR/FUEL RATIO	37.00
		VOC	0.7000 G/HP-H		BACT
				EFFICIENT COMBUSTION	
		CO	1.4000 G/HP-H		BACT
				EFFICIENT COMBUSTION	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION ODESSA NATURAL CORP. CISCO, TX EASTLAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-368
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/02/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	7660.00 HP	NOX	1.3000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	0.5000 G/HP-H	AIR/FUEL RATIO	BACT
I. C. ENGINES, 2 EA	1560.00 HP	NOX	6.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	2.2000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE ALVA, OK WOODS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-330
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/29/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, 3 EA	4500.00 HP	NOX	6.0000 G/HP-H AIR/FUEL RATIO	BACT
		CO	4.8000 G/HP-H AIR/FUEL RATIO	BACT
I.C. ENGINE	631.00 HP	NOX	11.5000 G/HP-H AIR/FUEL RATIO	BACT
		CO	5.5000 G/HP-H AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
CASHION STATION
CASHION, OK
KINGFISHER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-329
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE, 2 EA	4500.00 HP	NOX	9.0000 G/HP-H AIR/FUEL RATIO		BACT
		CO	9.0000 G/HP-H AIR/FUEL RATIO		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE , TX 64141

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-321
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	771.00 HP				
		NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		VOC	1.7000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	5.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
		NH3	0.0090 LB/H	EFFICIENT COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
6 KM SW GARNER OIL FD. , TX 64141
CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-320
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	771.00 HP EA	NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		VOC	13.5000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	5.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
		NH3	0.6800 LB/H	EFFICIENT COMBUSTION	BACT

NOTES ----------
AIR/FUEL RATIO WITH A RESULTANT 2% FUEL SACRIFICE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE AMARILLO, TX

CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-322
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, 3	771.00 BRAKE HP EA				
		NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	5.7000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SHELL OIL CO.
SECTION 10
FREDERIC TOWNSHIP, MI
CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 617-82
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
LAURA STEINBERGER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/19/83
ESTIMATED DATE OF START-UP-- 1985
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS SWEETENING FACILITY	7.00 MMCFD				
		SO2		3-STAGE CLAUS UNIT	93.50
		SO2	184.0000 LB/H 540.0000 LB/H		
				GROUND LEVEL INCINERATOR	99.90

NOTES ----------
2ND ALTERNATE LIMIT - 2100 LB/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 8200.00 BBL/D

COMPANY NAME/SITE LOCATION SHELL OIL CO. , MS 70161
PIKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. MS 025
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON) (601)-354-2550 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/17/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO2 INJECTION	8200.00 BBL/D	NOX	BEST OPERATING PRACTICE	BACT

NOTES ----------
8 COMPRESSOR UNITS -- 2 AT 102.5 HP, 3 AT 205 HP, 2 AT 1460 HP, AND 1 AT 1100 HP (STANDBY). ONE EMERGENCY UNIT.

(+) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS — BIENVILLE, LA
BIENVILLE — BIENVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-406
DETERMINATION MADE BY EPA REGION VI (AGENCY) — BILL TAYLOR (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENSINES, 2 EA	448.00 BRAKE HP	NOX	11.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS FRANKLINTON, LA WASHINGTON PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-267
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

DATE OF PERMIT ISSUANCE-- 07/17/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE	5000.00 HP				
		NOX	182.0000 LB/H		BACT
		CO	4.0000 LB/H		BACT
				AIR/FUEL RATIO	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SUN GAS CO. THREE NORTH PARK EAST ST. DALLAS, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-R72
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 2	1200.00 HP				
		NOX	9.1000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT
		CO	1.2000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT
COMPRESSOR	600.00 HP				
		NOX	9.1000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT
		CO	1.2000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC. EAST COTE BLANCHE BAY, LA

IBERIN PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-382
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BENHAM (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE 2	1560.00 BRAKE HP	NOX	10.0000 G/HP-H	AIR/FUEL RATIO	BACT
I.C. ENGINE 1	40.00 BRAKE HP	CO	10.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 60252
NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-381
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR ENGINE, TURBOCH*	1650.00 HP				
		NOX	6.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	1.3000 G/HP-H	NORMAL OPERATION	BACT
GEN. DRIVER, 2 EA	360.00 HP				
		NOX	10.0000 G/HP-H	NORMAL OPERATION	BACT
		CO	10.0000 G/HP-H	NORMAL OPERATION	BACT

NOTES ----------
ONE GENERATOR DRIVER IS A STANDARD UNIT. NATURAL GAS USED AS FUEL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 6300.00 HP

COMPANY NAME/SITE LOCATION TEXACO, INC.
1501 CANAL ST., P.O. BOX 60252 NEW ORLEANS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-301 DATE OF PERMIT ISSUANCE-- 08/29/80
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C., TURBOCHARGED	2650.00 HP				
		NOX	43.7000 LB/H 7.5000 G/HP-H	IGN. TI. RETARD ENG. SPARK	BACT
TURBINE COMPRESSOR, GAS-FIRED	3300.00 HP				
		NOX	9.4000 LB/H 1.3000 G/HP-H		NSPS
I.C. ENGINE, NAT. ASPIRATED	350.00 HP				
		NOX	7.7000 LB/H 10.0000 G/HP-H	AIR/FUEL RATIO CONTROL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC. 1501 CANAL ST NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-300
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/29/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H	CON IGN TIM/RETARD ENGINE SPARK	BACT
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H	CON IGN TIM/RETARD ENGINE SPARK	BACT
TURBINE, GAS FIRED, COMPRESSION	3500.00 HP	NOX	1.8000 G/HP-H 14.2000 LB/H	NONE	BACT
I. C. ENGINE, NAT. ASPIRATED	500.00 HP	NOX	10.0000 G/HP-H 11.0000 LB/H	AIR/FUEL RATIO CONTROL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

04/29/1983

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO.
P.O. BOX 1478 HOUSTON, LA 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-230
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/04/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 3 EA	3500.00 HP				
		NOX	107.9000 LB/H EA 30.8000 LB/MHP-H	CON. AIR/FUEL RATIO, IGN. TIM.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED PIPE LINE CO. HOUSTON, TX 77001
P.O. BOX 1478

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 03/04/80
PERMIT NO. TX-211 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 3	1000.00 HP EA	NOX	31.5000 LB/H 31.5000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.